

2004 Cadillac SRX

2004 STEERING Power Steering System - SRX

2004 STEERING**Power Steering System - SRX****SPECIFICATIONS****FASTENER TIGHTENING SPECIFICATIONS****Fastener Tightening Specifications**

Application	Specification	
	Metric	English
Air Cleaner Assembly front half screws	8 N.m	71 lb in
Brake Line to Brake Hose Fitting	27 N.m	20 lb ft
Intermediate Steering Shaft Pinch Bolt	50 N.m	37 lb ft
Lower Engine Mount Nuts to Frame	80 N.m	59 lb ft
Outer Tie Rod to Knuckle Retaining Nut	70 N.m	52 lb ft
Power Steering Cooler Pipe/Hose to Frame Retaining Bolt	4 N.m	35 lb in
Power Steering Cooler to Bracket Retaining Bolts	9 N.m	80 lb in
Power Steering Gear Retaining Bolts	180 N.m	134 lb ft
Power Steering Hoses to Power Steering Gear Retaining Bolt	23 N.m	17 lb ft
Power Steering Pressure Hose to Frame Retaining Bolts	4 N.m	40 lb in
Power Steering Pressure Hose to Power Steering Pump	38 N.m	28 lb ft
Power Steering Pump Bracket to Engine Bolt	50 N.m	37 lb ft
Power Steering Pump to Engine Bolt	50 N.m	37 lb ft
Power Steering Pump to Power Steering Bracket Bolt	25 N.m	18 lb ft
Power Steering Reservoir Retaining Nuts	9 N.m	80 lb in
Power Steering Return Line to Frame Retaining Bolt.	4 N.m	35 lb in

POWER STEERING PUMP SPECIFICATIONS**Power Steering Pump Specifications**

Engine		High Flow	Pressure Relief

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Code	Engine Size	LPM	GPM	kPa	PSI
LY7	3.6L	10.75/12.25	2.84/3.24	11500/12200	1668/1770
LH2	4.6L	10.75/12.25	2.84/3.24	11500/12200	1668/1770

DIAGNOSTIC INFORMATION AND PROCEDURES

DIAGNOSTIC STARTING POINT - POWER STEERING SYSTEM (W/O ELECTRO-HYDRAULIC STEERING)

Begin the system diagnosis by reviewing the system Description and Operation. Reviewing the Description and Operation information will help you determine the correct symptom diagnostic procedure when a malfunction exists. Reviewing the Description and Operation information will also help you determine if the condition described by the customer is normal operation. Refer to **Symptoms - Power Steering System** in order to identify the correct procedure for diagnosing the system and where the procedure is located.

SYMPTOMS - POWER STEERING SYSTEM

IMPORTANT: Review the system description and operation in order to familiarize yourself with the system functions. Refer to **Power Steering System Description and Operation (w/o Electro-Hydraulic Steering)**.

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the power steering system.
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.
- Inspect the power steering reservoir for the proper power steering fluid level and condition.

Symptoms List

Refer to a symptom diagnostic procedure from the following list in order to diagnose the symptom:

- **Power Steering Fluid Leaks**
- **Rattle, Clunk, or Shudder Noise from the Power Steering System**
- **Whine or Growl Noise from the Power Steering System**
- **Steering Effort Hard in One or Both Directions**

- Steering Effort Too Easy in One or Both Directions

POWER STEERING SYSTEM TEST PROCEDURE

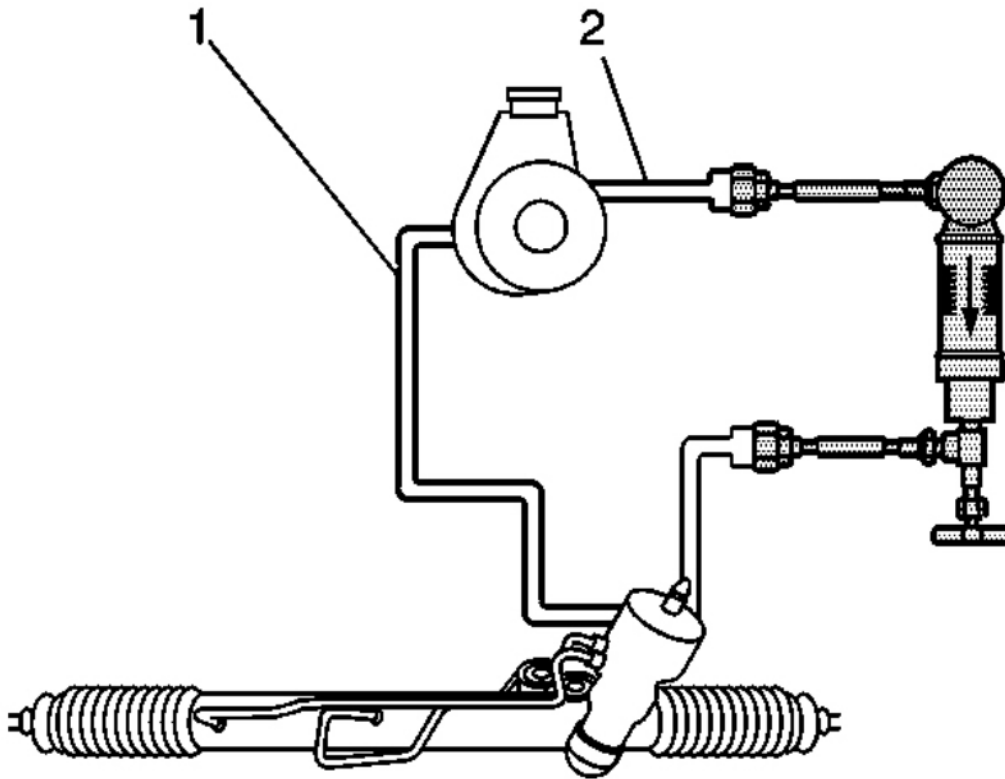


Fig. 1: Testing Rack and Pinion System Pressures
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 1

Callout	Component Name
1	Power Steering Return Hose
2	Power Steering Pressure Hose

Test Description

The numbers below refer to the step numbers on the diagnostic table.

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5: This step tests the system for restrictions.

7: This step tests the following components for the following conditions:

- The pump for internal leaks
- The power steering pipes for kinks

8: This step tests the ability of the pump to regulate flow at maximum pressure.

10: This step tests the ability of the pump to regulate flow under normal operating conditions.

12: This step tests the internal components of the pump and the gear.

Power Steering System Test Procedure

Step	Action	Value(s)	Yes	No
DEFINITION: The Power Steering System Test Procedure will perform the following functions: • Test the operation of the hydraulic power steering system. • Test the operation of the power steering pump and power steering gear. • Identify restrictions in the system.				
1	Inspect the power steering fluid for the following indications of contamination: • Milky fluid - water • Brown fluid - burnt • Debris in fluid - plastic or dirt Is the fluid free of contamination?	-	Go to Step 3	Go to Step 2
2	Flush the power steering system. Refer to <u>Flushing the Power Steering System</u> . Did you complete the procedure?	-	Go to Step 3	-
3	IMPORTANT: In order to accurately diagnose the system, the malfunction must be present during the test procedure. Attempt to duplicate the condition. Is the condition present?	-	Go to Step 4	System OK
	1. Turn the ignition switch to the OFF			

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4	position. - Place a drain pan under the vehicle in order to catch any power steering fluid. - Disconnect the power steering pressure pipe/hose from the power steering pump or the power steering gear as necessary. - Install the J 44721 Power Steering System Analyzer. See <u>Special Tools and Equipment</u>. - Fill the power steering system. Refer to <u>Checking and Adding Power Steering Fluid</u>. Did you complete the installation?	-	Go to Step 5	-
5	- Fully open the J 44721 valve. See <u>Special Tools and Equipment</u>. - Start the engine. NOTE: Refer to <u>Steering Wheel in the Full Turn Position Notice</u> in Cautions and Notices. - Turn the steering wheel and BRIEFLY hold the steering wheel against the steering stop in order to release any trapped air from the system. - Inspect and ensure that all of the power steering pipe/hose connections are not leaking. - Making sure the steering wheel is OFF the steering stop, observe the pressure reading. Is the pressure reading greater than the specified value?	1379 kPa (200 psi)	Go to Step 6	Go to Step 7

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6	IMPORTANT: A restriction may be present in the power steering system. Turn off the engine IMMEDIATELY. Locate and repair the restriction. Did you complete the repair?	-	Go to Step 15	-
7	- Allow the engine to run until the engine reaches full operating temperature. - Record the pressure reading and flow reading. - Partially close the J 44721 valve until the system pressure reaches the specified value, then record the FLOW reading. See <u>Special Tools and Equipment</u>. - Subtract second flow reading from the first flow reading. Is the flow DECREASE greater than 3.8 L (1 gal) per minute?	4827 kPa (700 psi)	Go to Step 11	Go to Step 8
8	IMPORTANT: Do not leave the valve closed for more than 5 seconds, or internal pump damage could accrue. Fully close then open the J 44721 valve 3 times. See <u>Special Tools and Equipment</u>. Record all of the high pressure readings. Refer to <u>Power Steering Pump Specifications</u> for power steering system pressure relief specifications. Are the three high pressure readings within specifications?	-	Go to Step 9	Go to Step 13
9	Are the three high pressure readings within 245 kPa (50 psi) of each other?	-	Go to Step 10	Go to Step 13
	Increase the engine speed to approximately 1500 RPM.			

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10	2. Record the flow reading. Refer to <u>Power Steering Pump Specifications</u> for power steering system pressure specifications. Is the actual flow reading within specifications?	-	Go to Step 11	Go to Step 13
11	Is the difference between the actual flow reading and the maximum flow specification more than 3.8 L (1 gal) per minute?	-	Go to Step 13	Go to Step 12
12	NOTE: The wheels of the vehicle must be straight ahead and the steering column in the LOCK position before disconnecting the steering column or intermediate shaft from the steering gear. Failure to do so will cause the coil assembly in the steering column to become uncentered which will cause damage to the coil assembly. Turn the steering wheel from steering stop to steering stop and record the FLOW readings at each stop. Is the flow LOWER than 3.8 L (1 gal) per minute?	-	Go to Step 15	Go to Step 14
13	Replace the power steering pump. Refer to <u>Power Steering Pump Replacement (LH2)</u> or <u>Power Steering Pump Replacement (LY7)</u>. Did you complete the replacement?	-	Go to Step 15	-
14	The power steering gear is leaking across the piston or bypassing the valve circuit. Replace the power steering gear. Refer to <u>Power Steering Gear Replacement</u>. Did you complete the replacement?	-	Go to Step 15	-
15	Test the power steering system for the original condition. Does the original condition still exist?	-	Go to Step 5	Go to Step 16
	1. Disconnect and remove the J 44721 from the vehicle. See <u>Special Tools</u>			

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16	<u>and Equipment.</u>			
	2. Connect the vehicle power steering pipes/hoses. 3. Fill the power steering system. Refer to <u>Checking and Adding Power Steering Fluid.</u>	-		
	Did you complete the procedure?		System OK	-

POWER STEERING FLUID LEAKS

Power Steering Fluid Leaks

Step	Action	Yes	No
1	Did you review the Power Steering System General Description and perform the necessary inspections?	Go to Step 2	Go to <u>Symptoms - Power Steering System</u>
2	Verify that power steering fluid leaks are present. Is the power steering system leaking?	Go to Step 3	System OK
3	Inspect the power steering system fittings. Are the fittings leaking?	Go to Step 8	Go to Step 4
4	Inspect the power steering hoses. Are the hoses leaking?	Go to Step 11	Go to Step 5
5	Inspect the power steering pump and the reservoir for leaks. Is the power steering pump or reservoir leaking?	Go to Step 10	Go to Step 6
6	Inspect the power steering gear for leaks. Is the power steering gear leaking?	Go to Step 11	Go to Step 7
7	Inspect the power steering cooler for leaks. Is the power steering cooler leaking?	Go to Step 12	Go to Step 3
8	NOTE: Refer to <u>Fastener Notice</u> in Cautions and Notices. Tighten the fittings. Refer to <u>Fastener Tightening Specifications</u> . Did you complete the repair?	Go to Step 13	-
	Replace the power steering hoses. Refer to the appropriate procedures:		

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9	• <u>Power Steering Reservoir Outlet Pipe/Hose Replacement (LH2)</u> or <u>Power Steering Reservoir Outlet Pipe/Hose Replacement (LY7)</u> • <u>Power Steering Gear Inlet Pipe/Hose Replacement (LH2)</u> or <u>Power Steering Gear Inlet Pipe/Hose Replacement (LY7)</u> • <u>Power Steering Gear Outlet Pipe/Hose Replacement</u> • <u>Power Steering Cooler Pipe/Hose Replacement</u> • <u>Power Steering Reservoir Inlet Pipe/Hose Replacement (LH2)</u> or <u>Power Steering Reservoir Inlet Pipe/Hose Replacement (LY7)</u> Did you complete the repair?	Go to Step 13	-
10	Replace the power steering pump or reservoir. Refer to <u>Power Steering Pump Replacement (LH2)</u> or <u>Power Steering Pump Replacement (LY7)</u> or <u>Remote Power Steering Fluid Reservoir Replacement (LH2)</u> or <u>Remote Power Steering Fluid Reservoir Replacement (LY7)</u>. Did you complete the repair?	Go to Step 13	-
11	Replace the power steering gear. Refer to <u>Power Steering Gear Replacement</u>. Did you complete the repair?	Go to Step 13	-
12	Replace the power steering cooler. Refer to <u>Power Steering Cooler Replacement (LY7 W/O V92)</u> or <u>Power Steering Cooler Replacement (LH2 or LY7 with V92)</u>. Did you complete the repair?	Go to Step 13	-
13	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

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RATTLE, CLUNK, OR SHUDDER NOISE FROM THE POWER STEERING SYSTEM

Rattle, Clunk, or Shudder Noise from the Power Steering System

Step	Action	Yes	No
1	Did you review the Power Steering System General Description and perform the necessary inspections?	Go to Step 2	Go to Symptoms - Power Steering System
2	Verify that a rattle, clunk or shudder noise is present. Is a rattle, clunk or shudder noise present?	Go to Step 3	System OK
3	Inspect the power steering hoses for proper routing and clearance. Is the routing or clearance of the power steering hoses incorrect?	Go to Step 10	Go to Step 4
4	Inspect the engine drive belt for cracking or excessive wear. Refer to Symptoms - Engine Mechanical in Engine Mechanical - 3.6L (LY7) or Symptoms - Engine Mechanical in Engine Mechanical - 4.6L (LH2). Is the drive belt cracked or excessively worn?	Go to Step 11	Go to Step 5
5	Inspect the power steering pump pulley for damage. Is the power steering pump pulley damaged?	Go to Step 12	Go to Step 6
6	Inspect the power steering pump for the proper installation. Refer to Power Steering Pump Replacement (LH2) or Power Steering Pump Replacement (LY7) . Is the power steering pump installation incorrect?	Go to Step 13	Go to Step 7
7	Inspect the power steering gear for the proper installation. Refer to Power Steering Gear Replacement . Is the power steering gear installation incorrect?	Go to Step 14	Go to Step 8
8	Inspect the suspension. Is the suspension worn?	Go to Step 15	Go to Step 9
9	Inspect the intermediate shaft. Is the intermediate shaft worn?	Go to Step 16	Go to Step 3
	Adjust or replace the hoses. Refer to the		

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10	appropriate procedures: • <u>Power Steering Reservoir Outlet Pipe/Hose Replacement (LH2)</u> or <u>Power Steering Reservoir Outlet Pipe/Hose Replacement (LY7)</u> • <u>Power Steering Gear Inlet Pipe/Hose Replacement (LH2)</u> or <u>Power Steering Gear Inlet Pipe/Hose Replacement (LY7)</u> • <u>Power Steering Gear Outlet Pipe/Hose Replacement</u> • <u>Power Steering Reservoir Inlet Pipe/Hose Replacement (LH2)</u> or <u>Power Steering Reservoir Inlet Pipe/Hose Replacement (LY7)</u> • <u>Power Steering Cooler Pipe/Hose Replacement</u>		
	Did you complete the repair?	Go to Step 17	-
11	Replace the engine drive belt. Refer to <u>Drive Belt Replacement - Generator and Water Pump</u> and <u>Drive Belt Replacement - Generator and Water Pump</u> in Engine Mechanical - 3.6L (LY7) or <u>Drive Belt Replacement - Generator</u> and <u>Drive Belt Replacement - Air Conditioning, Power Steering and Water Pump</u> in Engine Mechanical - 4.6L (LH2). Did you complete the repair?	Go to Step 17	-
12	Replace the power steering pump pulley. Refer to <u>Power Steering Pulley Replacement</u>. Did you complete the repair?	Go to Step 17	-
13	Install the power steering pump correctly. Refer to <u>Power Steering Pump Replacement (LH2)</u> or <u>Power Steering Pump Replacement (LY7)</u>.		

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	Did you complete the repair?	Go to Step 17	-
14	Install the power steering gear correctly. Refer to <u>Power Steering Gear Replacement</u> . Did you complete the repair?	Go to Step 17	-
15	Replace the worn suspension components. Refer to <u>Diagnostic Starting Point - Suspension General Diagnosis</u> in Suspension General Diagnosis. Did you complete the repair?	Go to Step 17	-
16	Replace the intermediate shaft. Refer to <u>Intermediate Steering Shaft Replacement - Upper</u> , <u>Intermediate Steering Shaft Replacement - Center</u> or <u>Intermediate Steering Shaft Replacement - Lower</u> . Did you complete the repair?	Go to Step 17	-
17	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

WHINE OR GROWL NOISE FROM THE POWER STEERING SYSTEM

Whine or Growl Noise from the Power Steering System

Step	Action	Yes	No
1	Did you review the Power Steering System Description and perform the necessary inspections?	Go to Step 2	Go to <u>Symptoms - Power Steering System</u>
2	Verify that a whine or growl noise is present. Is a whine or growl noise present?	Go to Step 3	System OK
3	Perform the power steering test procedure in order to diagnose a hydraulic condition and repair or replace a component. Refer to <u>Power Steering System Test Procedure</u> . Did you repair or replace a power steering system component?	Go to Step 10	Go to Step 4
4	Using the J 39570 Chassis Ear, inspect the power steering gear for a whine or growl noise. Is the noise present at the power steering gear?	Go to Step 7	Go to Step 5
5	Using the J 39570 , inspect the power steering pump for a whine or growl noise.		

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	Is the noise present at the power steering pump?	Go to Step 8	Go to Step 6
6	Using the J 39570 , inspect the power steering hoses for a whine or growl noise. Is the noise present at the power steering hoses?	Go to Step 9	Go to Step 2
7	Replace the power steering gear. Refer to <u>Power Steering Gear Replacement</u> . Did you complete the repair?	Go to Step 10	-
8	Replace the power steering pump. Refer to <u>Power Steering Pump Replacement (LH2)</u> or <u>Power Steering Pump Replacement (LY7)</u> . Did you complete the repair?	Go to Step 10	-
9	Adjust the routing of the power steering hoses. Did you complete the repair?	Go to Step 10	-
10	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

STEERING EFFORT HARD IN ONE OR BOTH DIRECTIONS

Steering Effort Hard in One or Both Directions

Step	Action	Yes	No
1	Did you review the Power Steering System General Description and perform the necessary inspections?	Go to Step 2	Go to <u>Symptoms - Power Steering System</u>
2	Verify that the steering effort is hard in one or both directions. Does the system operate normally?	System OK	Go to Step 3
3	Perform the power steering test procedure. Refer to <u>Power Steering System Test Procedure</u> . Did you complete the procedure?	Go to Step 4	-
4	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

STEERING EFFORT TOO EASY IN ONE OR BOTH DIRECTIONS

Steering Effort Too Easy in One or Both Directions

Step	Action	Yes	No

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1	Did you review the Power Steering System Description and perform the necessary inspections?	Go to Step 2	Go to Symptoms - Power Steering System
2	Verify that the steering effort is too easy in one or both directions. Does the system operate normally?	System OK	Go to Step 3
3	Perform the power steering test procedure. Refer to <u>Power Steering System Test Procedure</u> . Did you complete the procedure?	Go to Step 4	-
4	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to Step 3

REPAIR INSTRUCTIONS

BLEEDING THE POWER STEERING SYSTEM

Tools Required

- **J 35555** Metal Mityvac. See **Special Tools and Equipment**.
- **J 43485** Power Steering Bleeder Adapter. See **Special Tools and Equipment**.

IMPORTANT: Hoses touching the frame, body, or engine may cause system noise.

1. Verify that the hoses do not touch any other part of the vehicle.

IMPORTANT: Loose connections may not leak, but could allow air into the steering system.

2. Verify that all hose connections are tight.

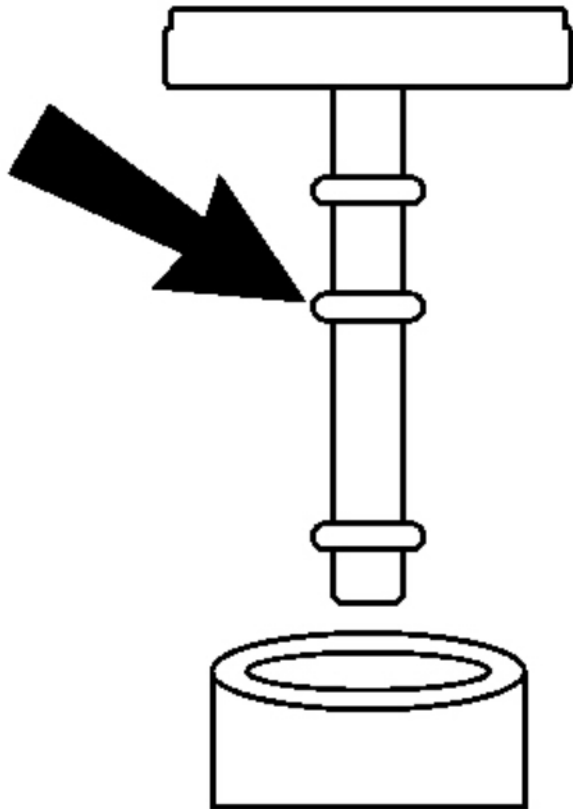


Fig. 2: Identifying FULL COLD Level On Reservoir Cap
Courtesy of GENERAL MOTORS CORP.

NOTE: If the power steering system has been serviced, an accurate fluid level reading cannot be obtained unless air is bled from the steering system. The air in the fluid may cause pump cavitation noise and may cause pump damage over a period of time.

IMPORTANT: Maintain the fluid level throughout the bleed procedure.

3. Remove the pump reservoir cap.

IMPORTANT: Use clean, new power steering fluid only.

4. Fill the pump reservoir with fluid to the FULL COLD level.

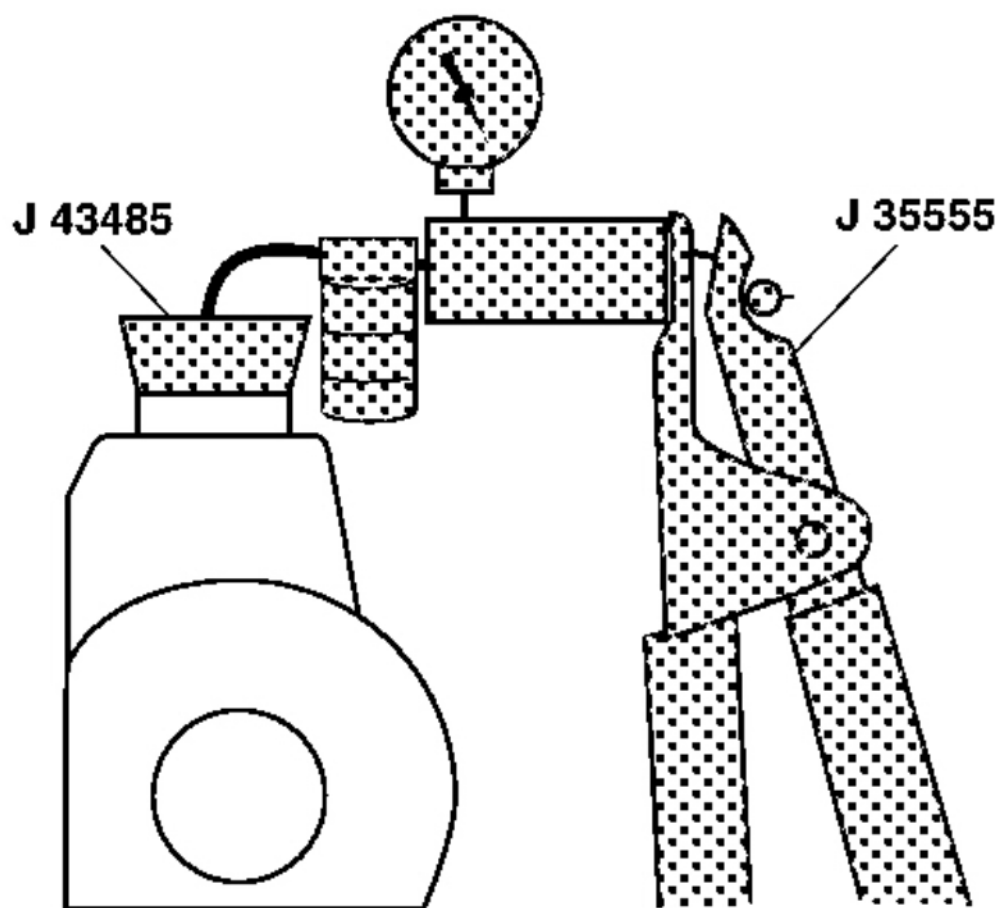


Fig. 3: Bleeding Power Steering System Using J 43485 & J 35555
Courtesy of GENERAL MOTORS CORP.

5. Attach the **J 43485** to the **J 35555** or equivalent. See **Special Tools and Equipment**.
6. Place the **J 43485** on or in the pump reservoir filler neck. See **Special Tools and Equipment**.
7. Apply a vacuum of 68 kPa (20 in Hg) maximum.

8. Wait 5 minutes.

Typical vacuum drop is 7-10 kPa (2-3 in Hg). If the vacuum does not remain steady, refer to Excessive Vacuum Drop Diagnosis at the end of this procedure.

9. Remove the **J 43485** and the **J 35555** . See **Special Tools and Equipment**.
10. Reinstall the pump reservoir cap.
11. Start the engine. Allow the engine to idle.
12. Turn off the engine.
13. Verify the fluid level. Repeat steps 11-13 until the fluid stabilizes.

IMPORTANT: Do not turn steering wheel to lock.

14. Start the engine. Allow the engine to idle.
15. Turn the steering wheel 180-360 degrees in both directions 5 times.
16. Switch the ignition off.

NOTE: **When adding fluid or making a complete fluid change, always use the proper power steering fluid. Failure to use the proper fluid will cause hose and seal damage and fluid leaks.**

17. Verify the fluid level.

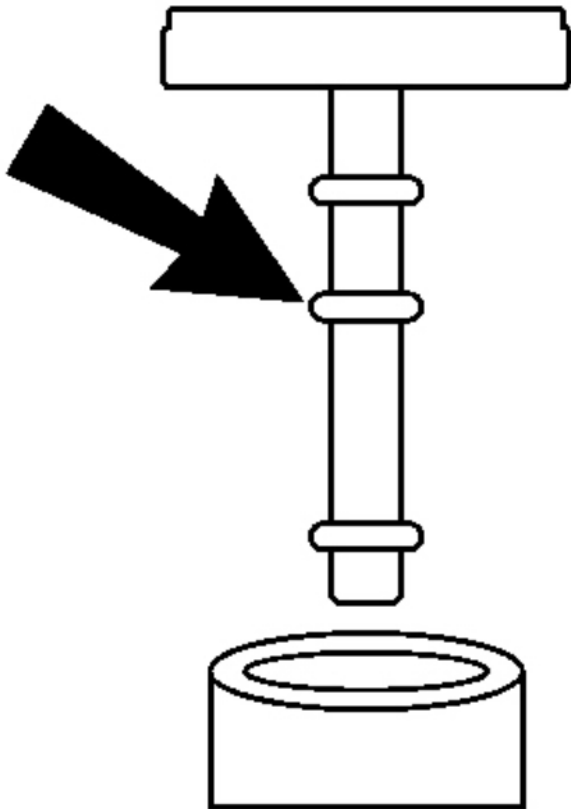


Fig. 4: Identifying FULL COLD Level On Reservoir Cap
Courtesy of GENERAL MOTORS CORP.

18. Remove the pump reservoir cap.

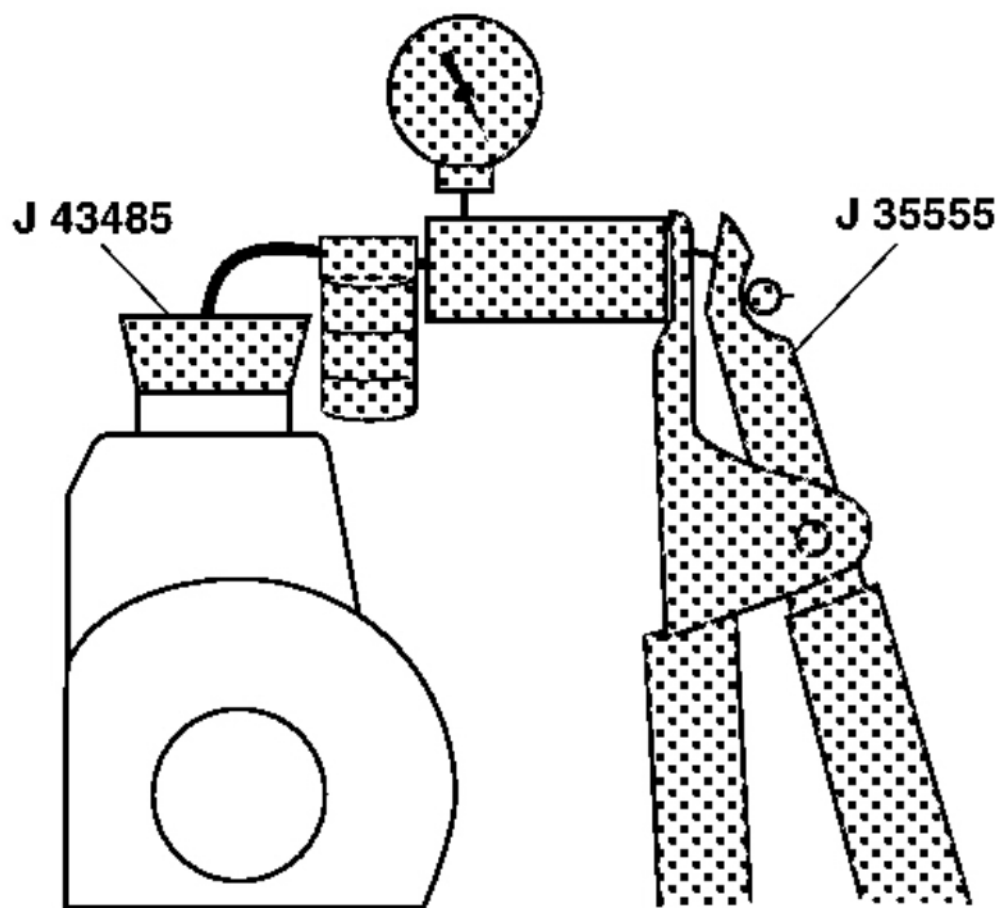


Fig. 5: Bleeding Power Steering System Using J 43485 & J 35555
Courtesy of GENERAL MOTORS CORP.

19. Attach the **J 43485** to the **J 35555** or equivalent. See **Special Tools and Equipment**.
20. Place the **J 43485** on or in the pump reservoir filler neck. See **Special Tools and Equipment**.
21. Apply a vacuum of 68 kPa (20 in Hg) maximum.
22. Wait 5 minutes.
23. Remove the **J 43485** and the **J 35555** . See **Special Tools and Equipment**.
24. Verify the fluid level.

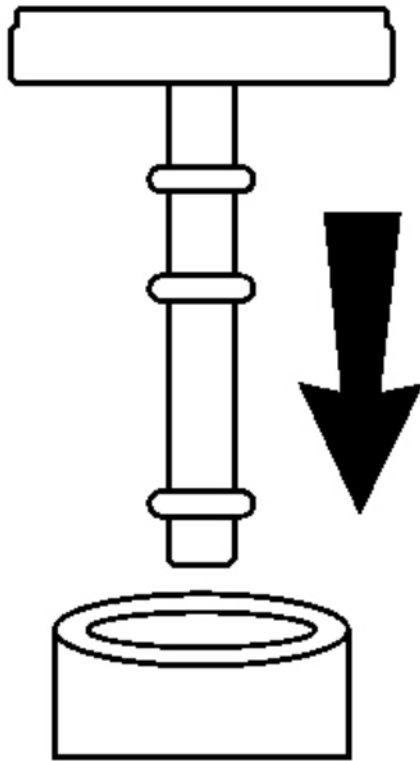


Fig. 6: View Of Pump Reservoir Cap
Courtesy of GENERAL MOTORS CORP.

25. Reinstall the pump reservoir cap.

Excessive Vacuum Drop Diagnosis

1. If the vacuum continues to drop, remove the pressure and return hose from the pump.
2. Install the plugs (1,2) supplied with the **J 43485** into the pressure and return port. See **Special Tools and Equipment**.

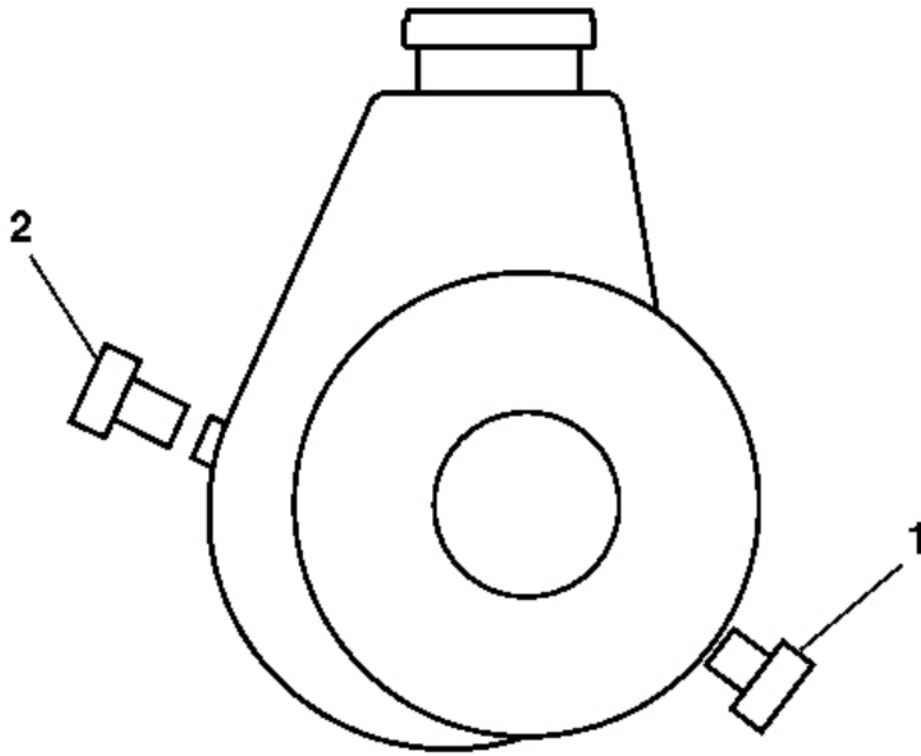


Fig. 7: Installing Plugs Into Power Steering Pump Pressure & Return Ports
Courtesy of GENERAL MOTORS CORP.

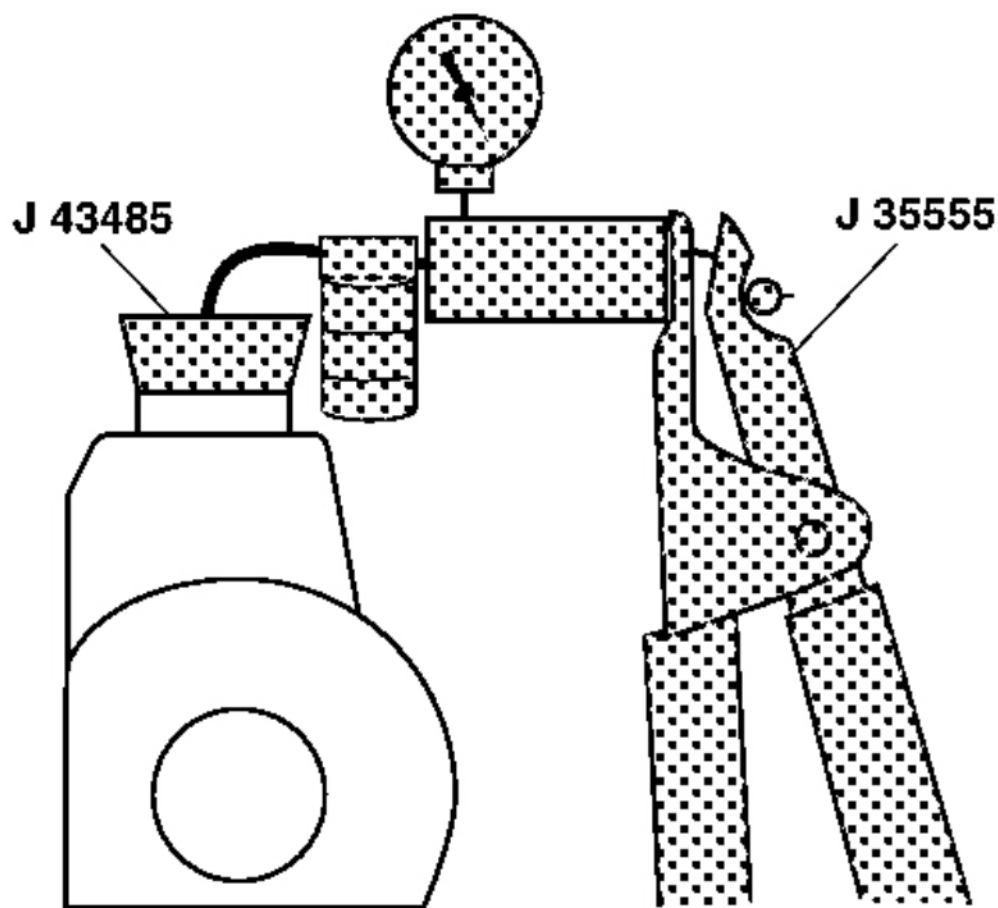


Fig. 8: Bleeding Power Steering System Using J 43485 & J 35555
Courtesy of GENERAL MOTORS CORP.

3. Attach the **J 43485** to the **J 35555** or equivalent. See **Special Tools and Equipment**.
4. Place the **J 43485** on or in the pump reservoir filler neck. See **Special Tools and Equipment**.
5. Apply a vacuum of 68 kPa (20 in Hg) maximum.
6. If the vacuum drops again, repair or replace the pump. If the vacuum holds steady, continue to check the other parts of the steering system.

IMPORTANT: Fluid must be free from bubbles and foam. Be aware of

**periodic bubbles that indicate a loose connection or leaking O-ring seal in the return hose or the pressure hose.
Fluid must be free from discoloration.**

7. Observe the fluid.
8. If condition persists, replace the following parts:
 - The return hose clamps
 - The return hose O-rings
 - The pressure hose O-rings
 - The gear cylinder line O-rings
 - The reservoir to pump O-ring
9. Repeat the bleed procedure from the beginning.
10. Drive the vehicle approximately 16 km (10 mi) in order to warm the system to operating temperature. Evaluate vehicle on a smooth flat surface.
11. Verify the following conditions:
 - There is smooth power assist.
 - The vehicle operates quietly.
 - The pump maintains the proper fluid level.
 - There is not any leaking in the steering system.
 - The fluid is free of foam or discoloration.

CHECKING AND ADDING POWER STEERING FLUID

NOTE: When adding fluid or making a complete fluid change, always use the proper power steering fluid. Failure to use the proper fluid will cause hose and seal damage and fluid leaks.

1. Clean the area surrounding the reservoir cap.
2. Remove the reservoir cap.
3. Inspect the power steering pump fluid level at regular intervals. Use the appropriate procedure below.

Add fluid when required. Refer to **Fluid and Lubricant Recommendations** in Maintenance and Lubrication.

Fluid Is Hot

1. Run the engine until the fluid reaches about 80°C (170°F).
2. Turn the engine OFF.
3. Remove the reservoir cap.
4. Inspect the fluid level on the capstick.
5. Ensure that the fluid level is at the HOT/FULL mark on the capstick.
4. If the fluid level is low, add power steering fluid to the proper level.
5. Install the reservoir cap.
6. When checking the fluid level after servicing the steering system, bleed the air from the system. Refer to **Bleeding the Power Steering System**.

FLUSHING THE POWER STEERING SYSTEM

IMPORTANT: Do not reuse any drained power steering fluid regardless of appearance or condition.

1. Turn off the engine.
2. Raise the front end of the vehicle off the ground until the tires and wheels turn freely. Refer to **Lifting and Jacking the Vehicle** in General Information.
3. Place a large container under the fluid return hose in order to collect the draining fluid.
4. Remove the fluid return hose at the power steering pump reservoir inlet connection.
5. Plug the reservoir return hose inlet connection on the power steering pump.

IMPORTANT:

- This step may require 4 L (4 qt) of power steering fluid until the draining fluid appears clear.
- Do not run the engine without the power steering fluid level at FULL COLD.

6. Run the engine at idle while an assistant maintains the fluid level at FULL COLD in the reservoir using new approved power steering fluid.
7. Turn off the engine.
8. Turn the steering wheel fully to the left and to the right.
9. Remove the plug from the pump reservoir inlet connection.
10. Install the fluid return hose to the pump reservoir.
11. Maintain the fluid level at FULL COLD.
12. Operate the engine at idle for approximately 15 minutes.

13. Repeat steps 3-5.
14. Inspect the power steering fluid for the following indications of contamination:
 - Milky fluid - water
 - Brown fluid - burnt
 - Plastic debris or dirt chunks
15. If the fluid is contaminated, repeat steps 6-12 in order to complete a third flush.
16. Remove the plug from the pump reservoir inlet connection.
17. Install the fluid return hose to the pump reservoir.
18. Clean any spilled fluid.
19. Bleed the power steering system. Refer to **Bleeding the Power Steering System**

REMOTE POWER STEERING FLUID RESERVOIR REPLACEMENT (LH2)

Removal Procedure

1. Remove the air cleaner intake duct. Refer to **Air Cleaner Outlet Duct Replacement** in Engine Controls - 4.6L (LH2).
2. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
3. Place a drain pan under the vehicle.

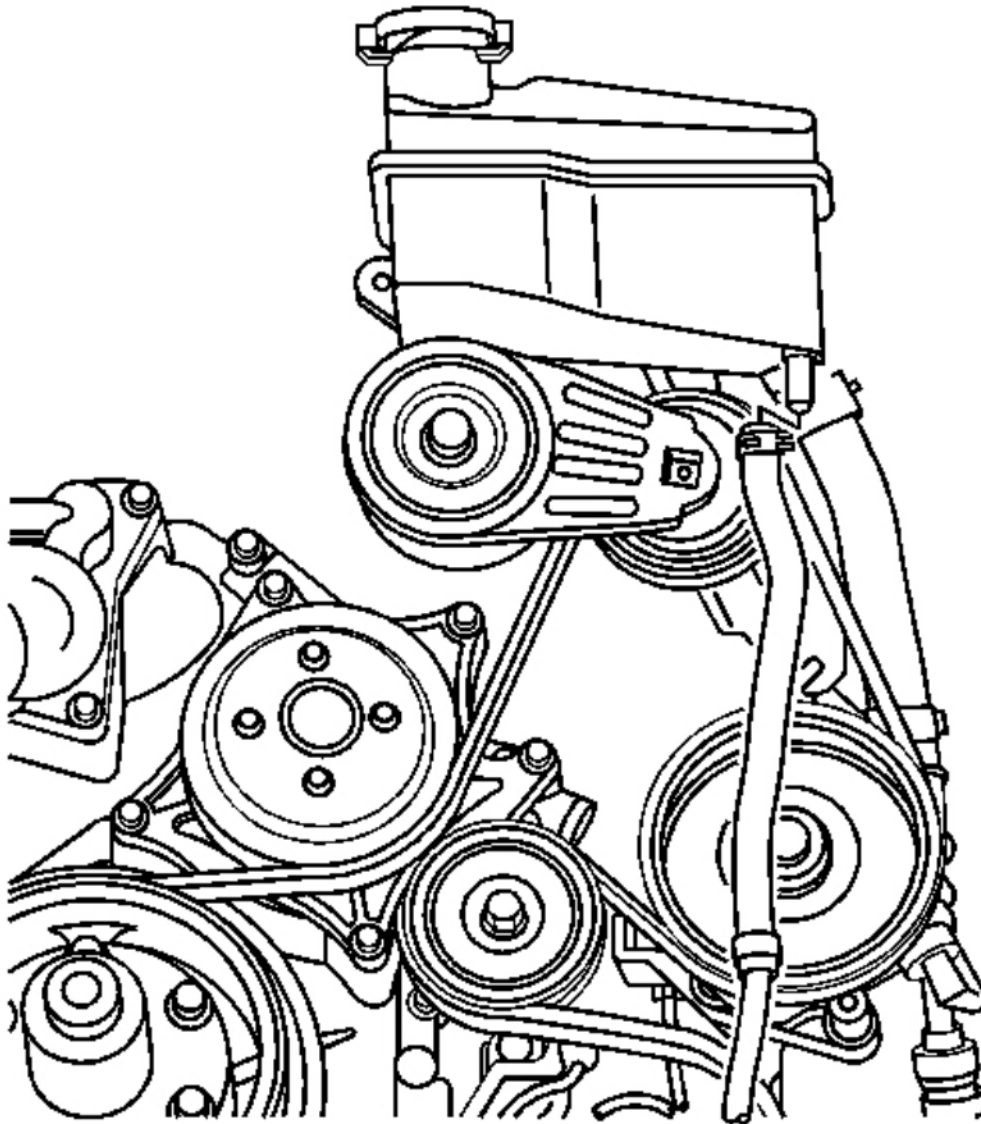


Fig. 9: View Of Power Steering Cooler Hose
Courtesy of GENERAL MOTORS CORP.

4. Disconnect the power steering cooler hose from the power steering reservoir.

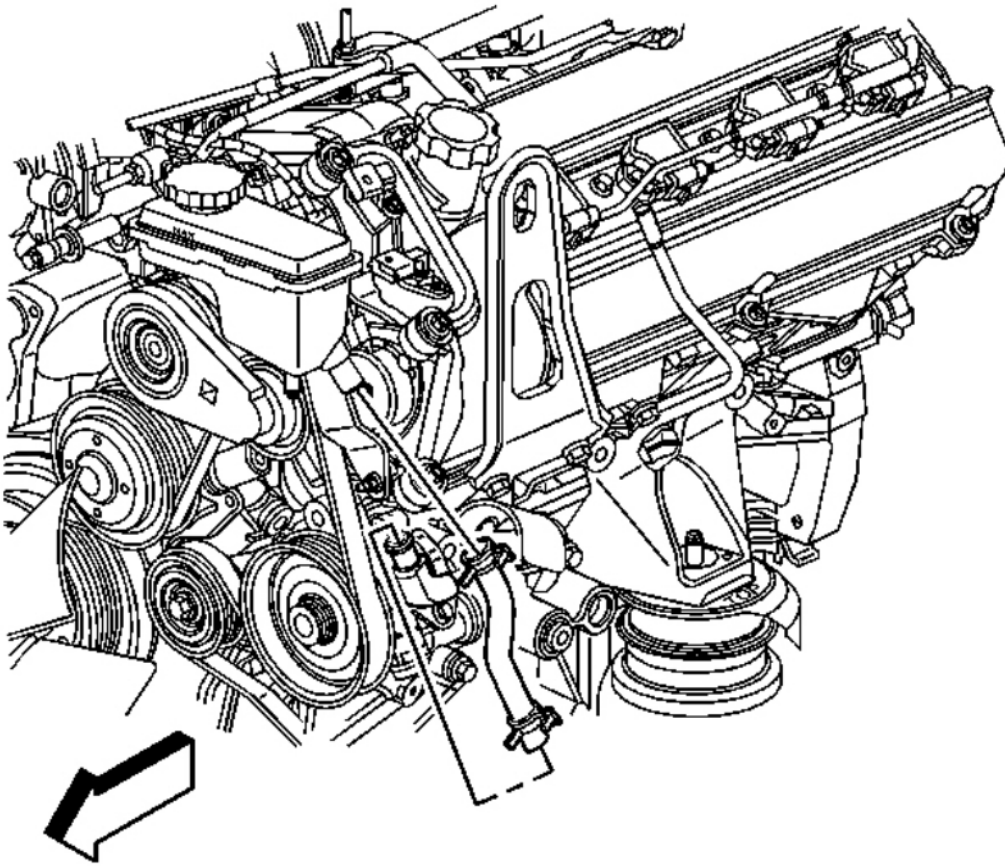


Fig. 10: View Of Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the power steering reservoir outlet hose from the power steering reservoir.

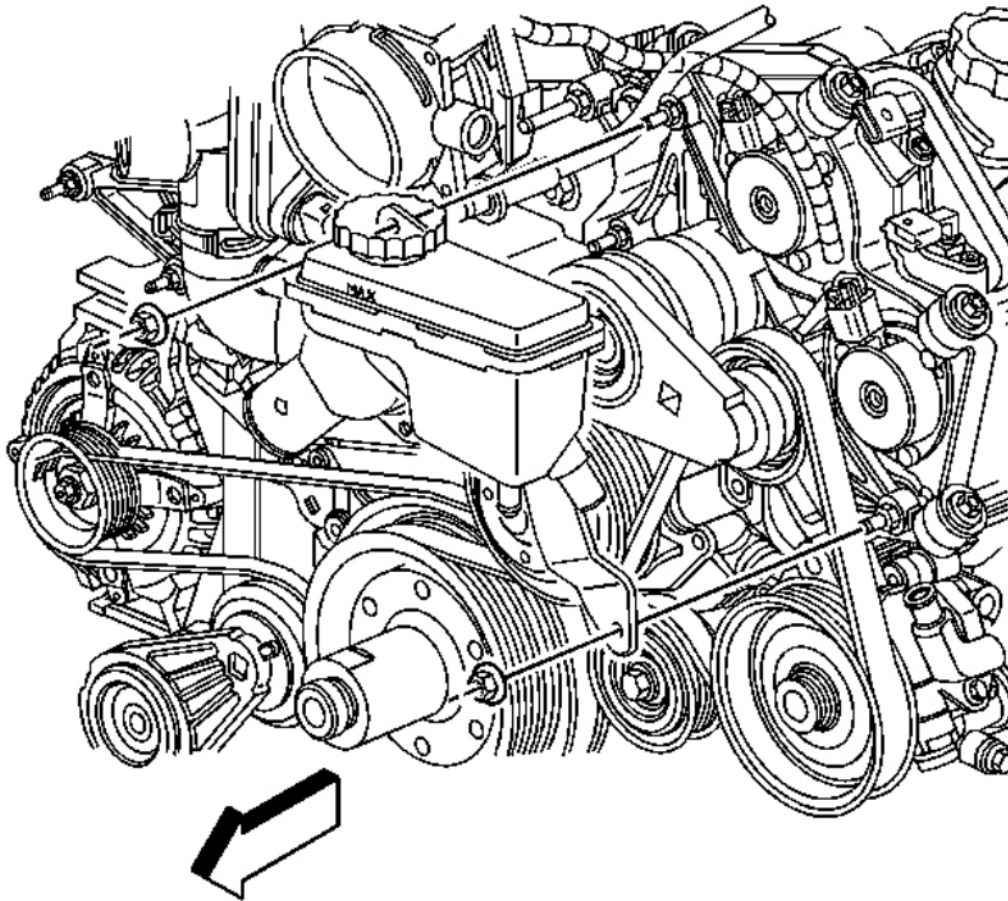


Fig. 11: View Of Power Steering Reservoir - LH2
Courtesy of GENERAL MOTORS CORP.

6. Remove the power steering reservoir retaining nuts.
7. Remove the power steering reservoir from the vehicle.

Installation Procedure

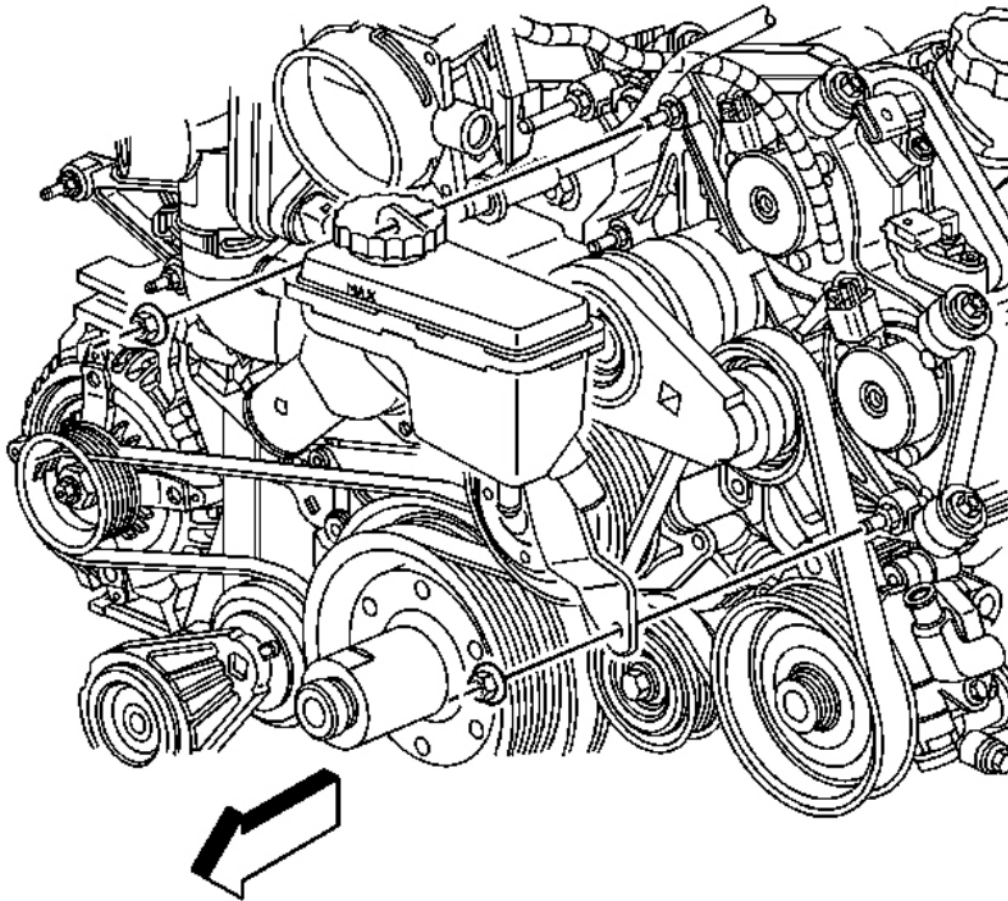


Fig. 12: View Of Power Steering Reservoir - LH2
Courtesy of GENERAL MOTORS CORP.

1. Install the power steering reservoir to the vehicle.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the power steering reservoir retaining nuts.

Tighten: Tighten the nuts to 9 N.m (80 lb in).

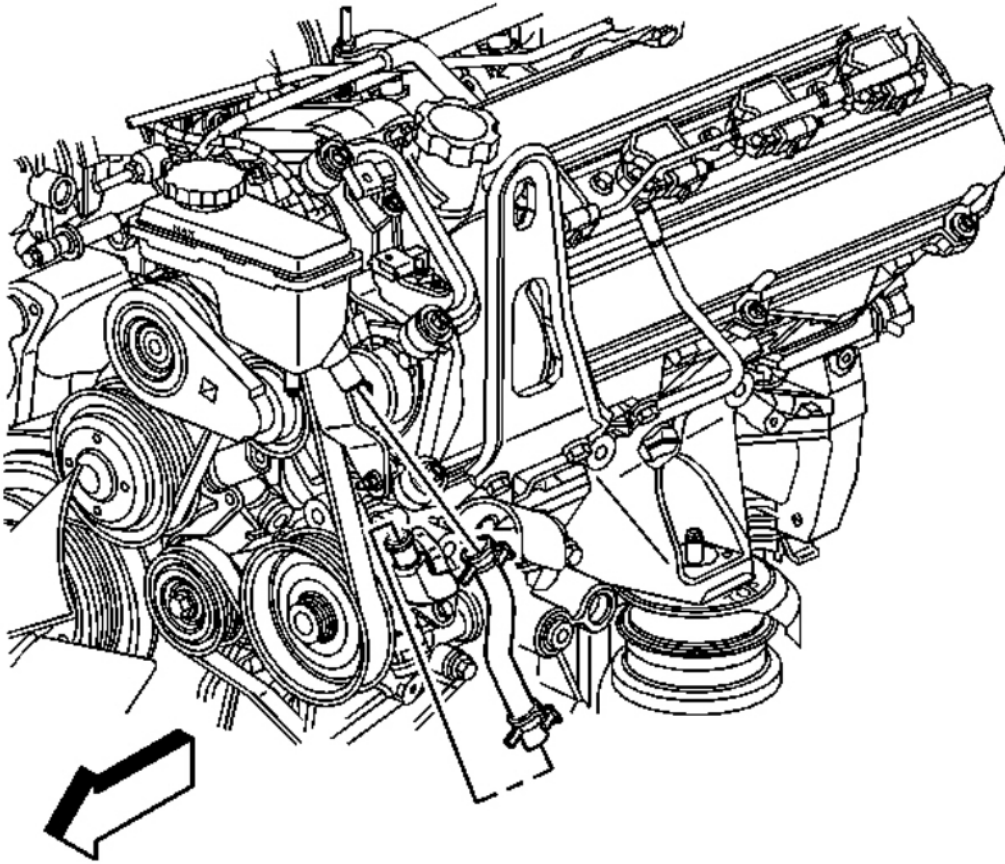


Fig. 13: View Of Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

3. Connect the power steering reservoir outlet hose to the power steering reservoir.

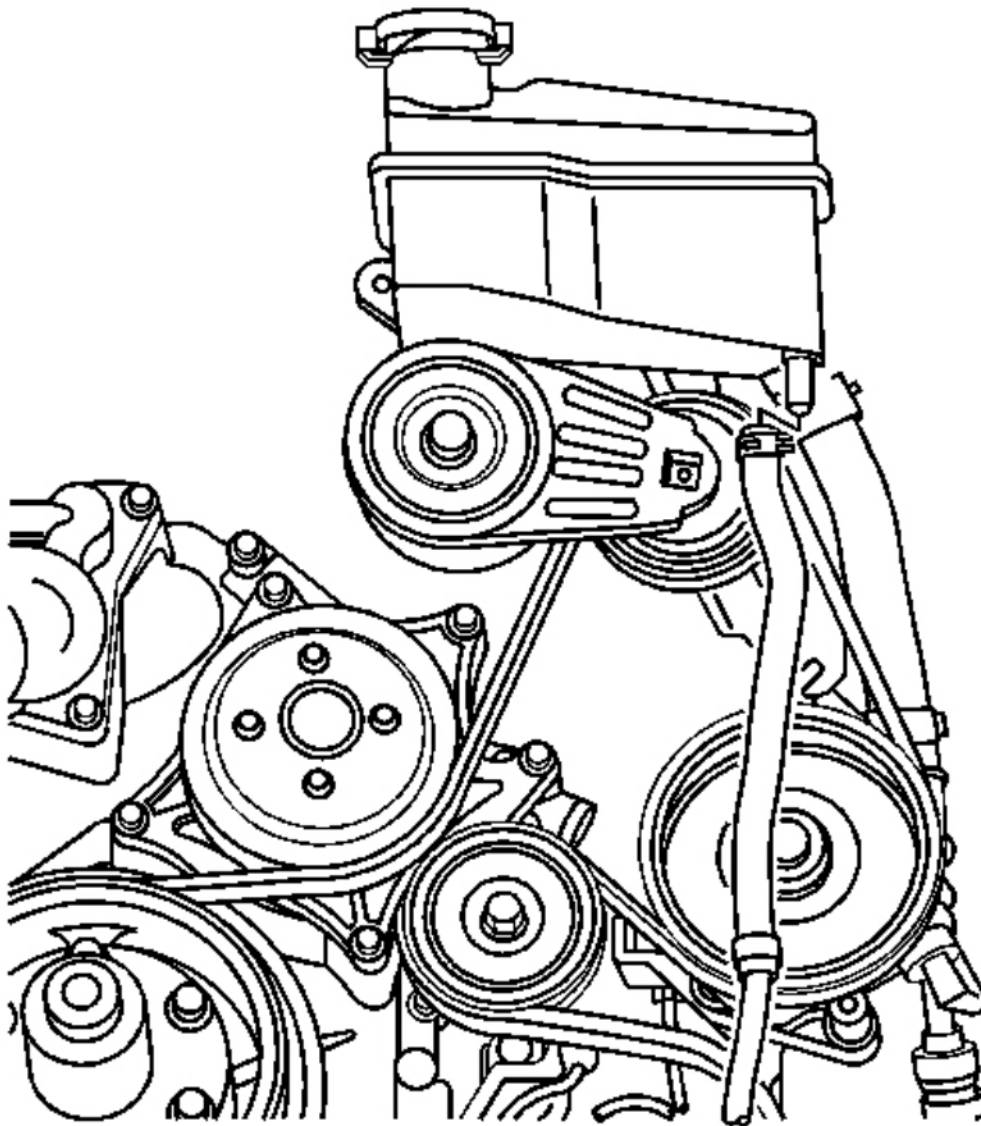


Fig. 14: View Of Power Steering Cooler Hose
Courtesy of GENERAL MOTORS CORP.

4. Connect the power steering cooler hose to the power steering reservoir.
5. Remove the drain pan from under the vehicle.
6. Install the air cleaner intake duct. Refer to **Air Cleaner Outlet Duct Replacement** in

Engine Controls - 4.6L (LH2).

7. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.
8. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.

REMOTE POWER STEERING FLUID RESERVOIR REPLACEMENT (LY7)

Removal Procedure

1. Remove the air cleaner intake duct. Refer to **Air Cleaner Intake Duct Replacement** in Engine Controls - 3.6L (LY7).
2. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
3. Place a drain pan under the vehicle.
4. Disconnect the power steering cooler hose from the power steering reservoir.

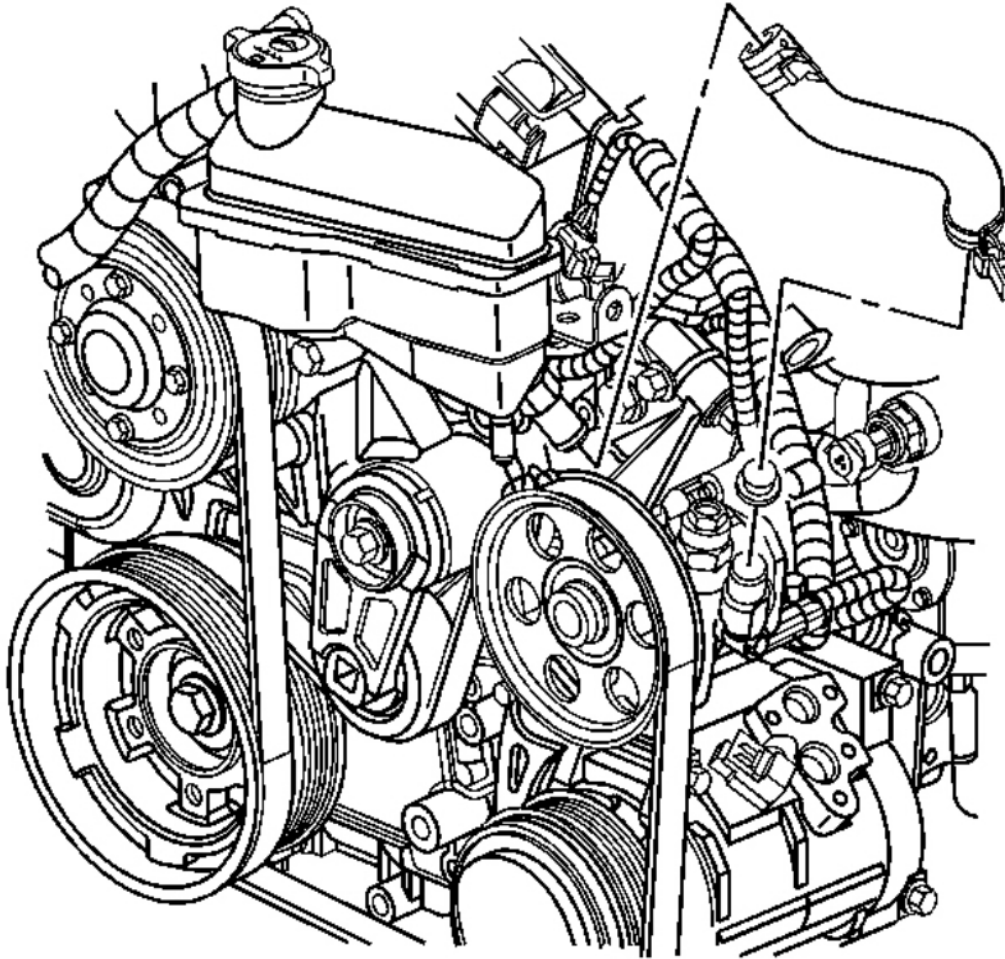


Fig. 15: Identifying Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the power steering reservoir outlet hose from the power steering reservoir.

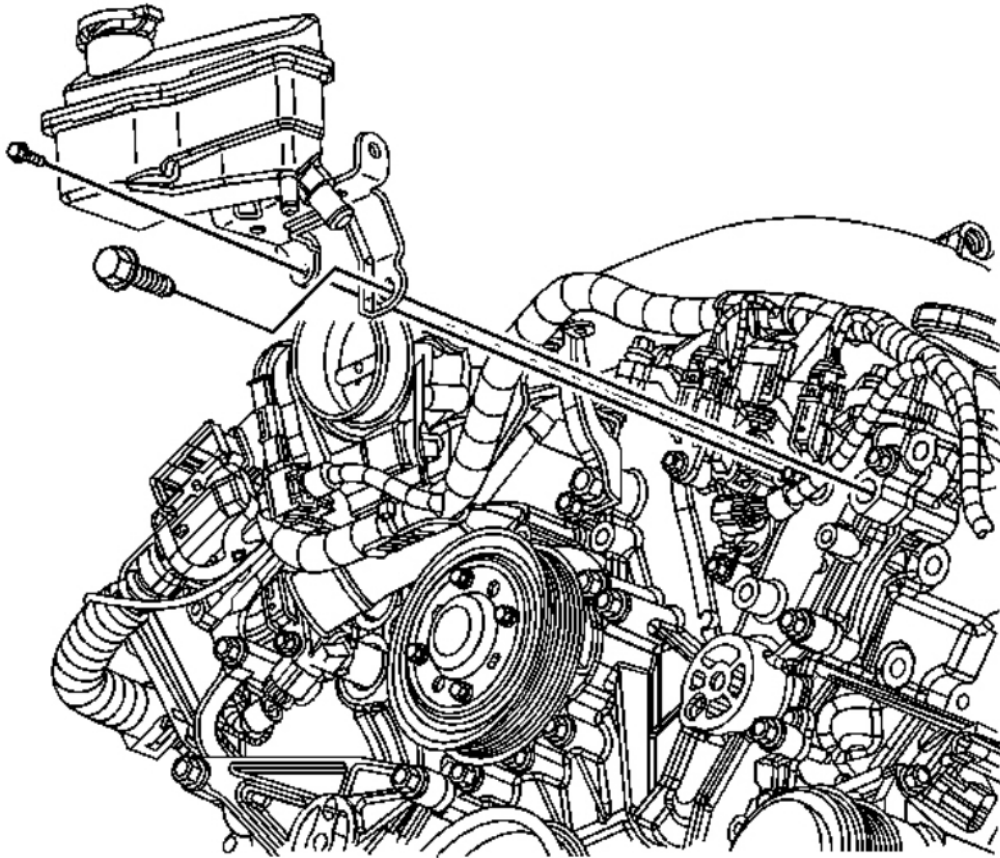


Fig. 16: View Of Power Steering Reservoir - LY7
Courtesy of GENERAL MOTORS CORP.

6. Remove the power steering reservoir retaining bolts.
7. Remove the power steering reservoir from the vehicle.

Installation Procedure

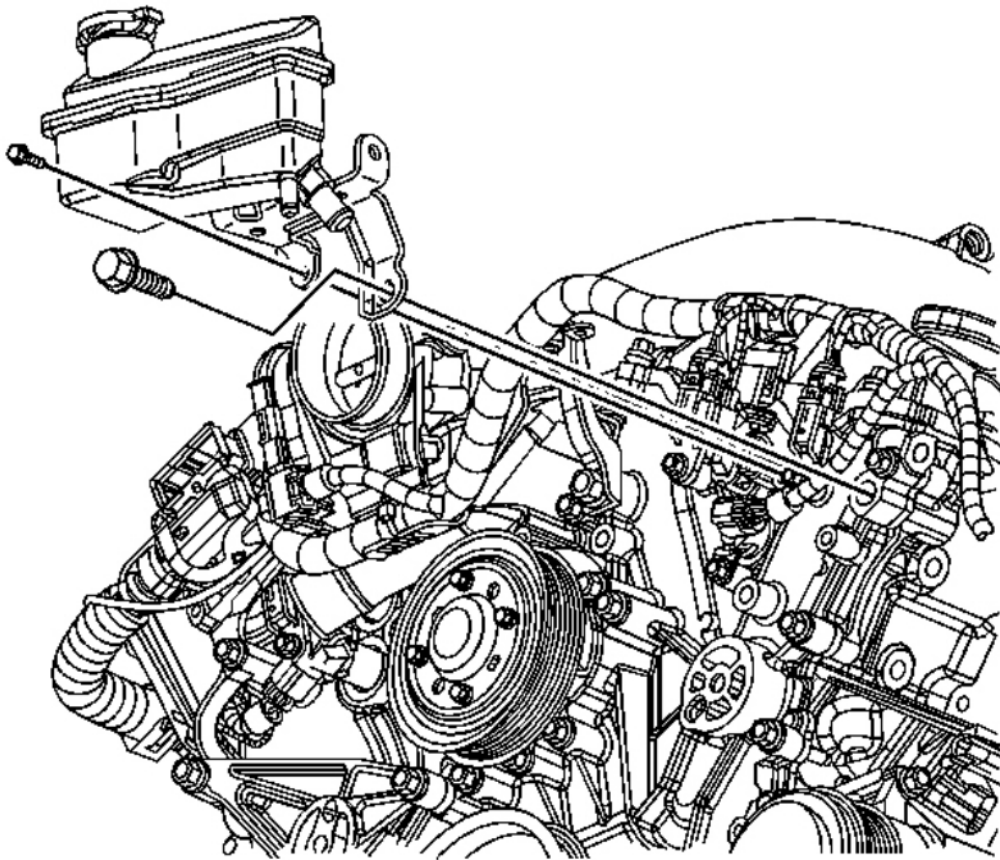


Fig. 17: View Of Power Steering Reservoir - LY7
Courtesy of GENERAL MOTORS CORP.

1. Install the power steering reservoir to the vehicle.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the power steering reservoir retaining bolts.

Tighten: Tighten the bolts to 9 N.m (80 lb in).

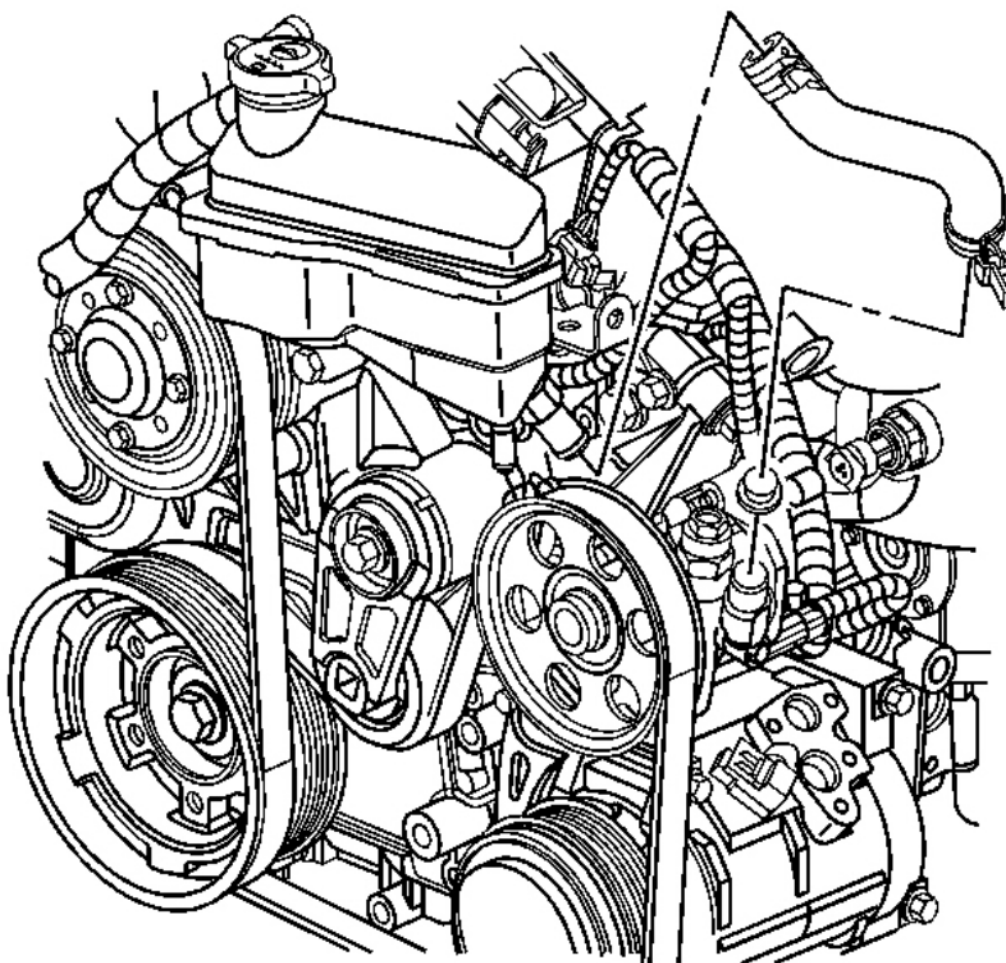


Fig. 18: Identifying Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

3. Connect the power steering reservoir outlet hose to the power steering reservoir.
4. Connect the power steering cooler hose to the power steering reservoir.
5. Remove the drain pan from under the vehicle.
6. Install the air cleaner intake duct. Refer to **Air Cleaner Intake Duct Replacement** in Engine Controls - 3.6L (LY7).
7. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.
8. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front

End.

POWER STEERING PULLEY REPLACEMENT

Tools Required

- **J 25033-C** Pulley Installer
- **J 25034-C** Pulley Remover

Removal Procedure

1. Remove the air cleaner intake duct. Refer to **Air Cleaner Intake Duct Replacement** in Engine Controls - 3.6L (LY7) or **Air Cleaner Outlet Duct Replacement** in Engine Controls - 4.6L (LH2).
2. Release the belt tension and slide the belt off the pulley. Refer to **Drive Belt Replacement - Power Steering and Air Conditioning** in Engine Mechanical - 3.6L (LY7) or **Drive Belt Replacement - Air Conditioning, Power Steering and Water Pump** in Engine Mechanical - 4.6L (LH2).
3. Using the **J 25034-C** , remove the power steering pump pulley from the power steering pump.

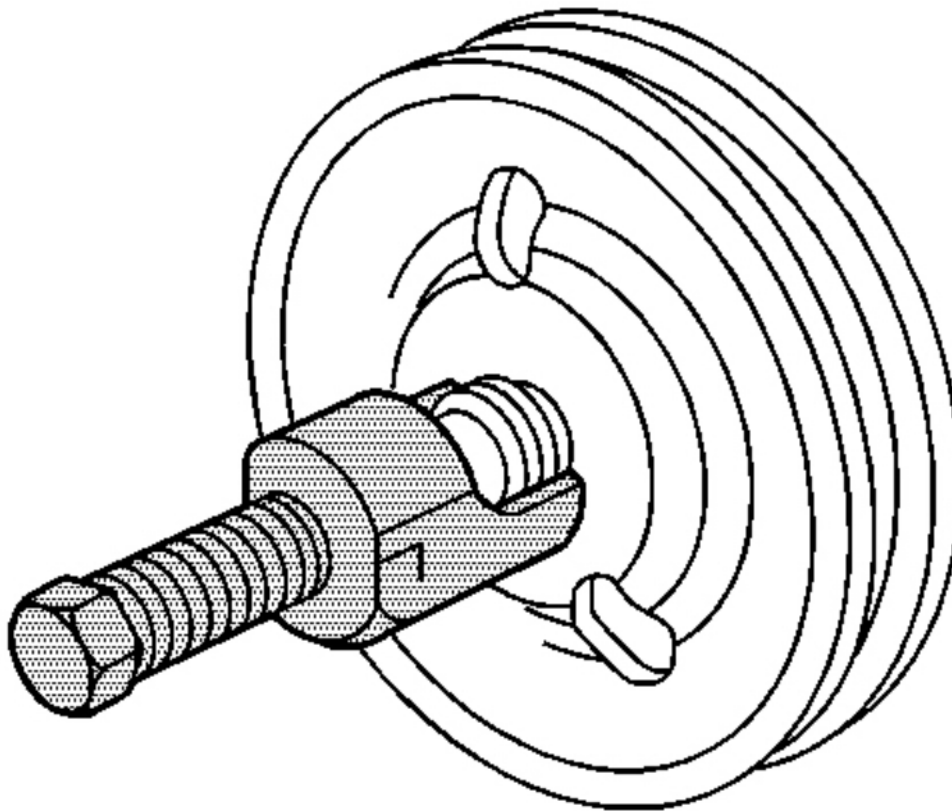


Fig. 19: View Of Power Steering Pump Pulley Remover
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Using the **J 25033-C** , install the power steering pump pulley to the power steering pump.

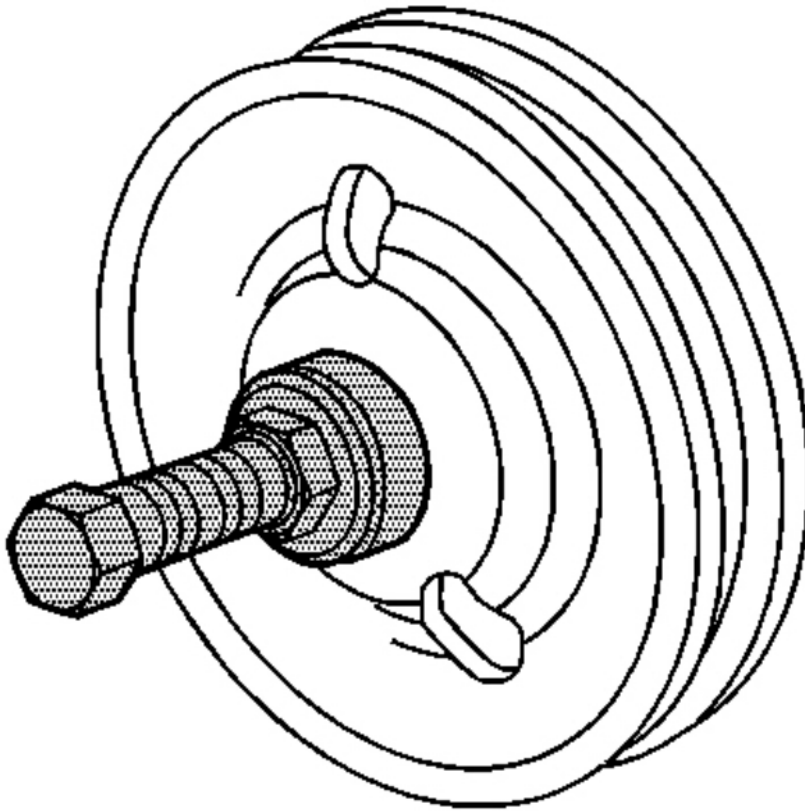


Fig. 20: View Of Power Steering Pump Pulley Installer
Courtesy of GENERAL MOTORS CORP.

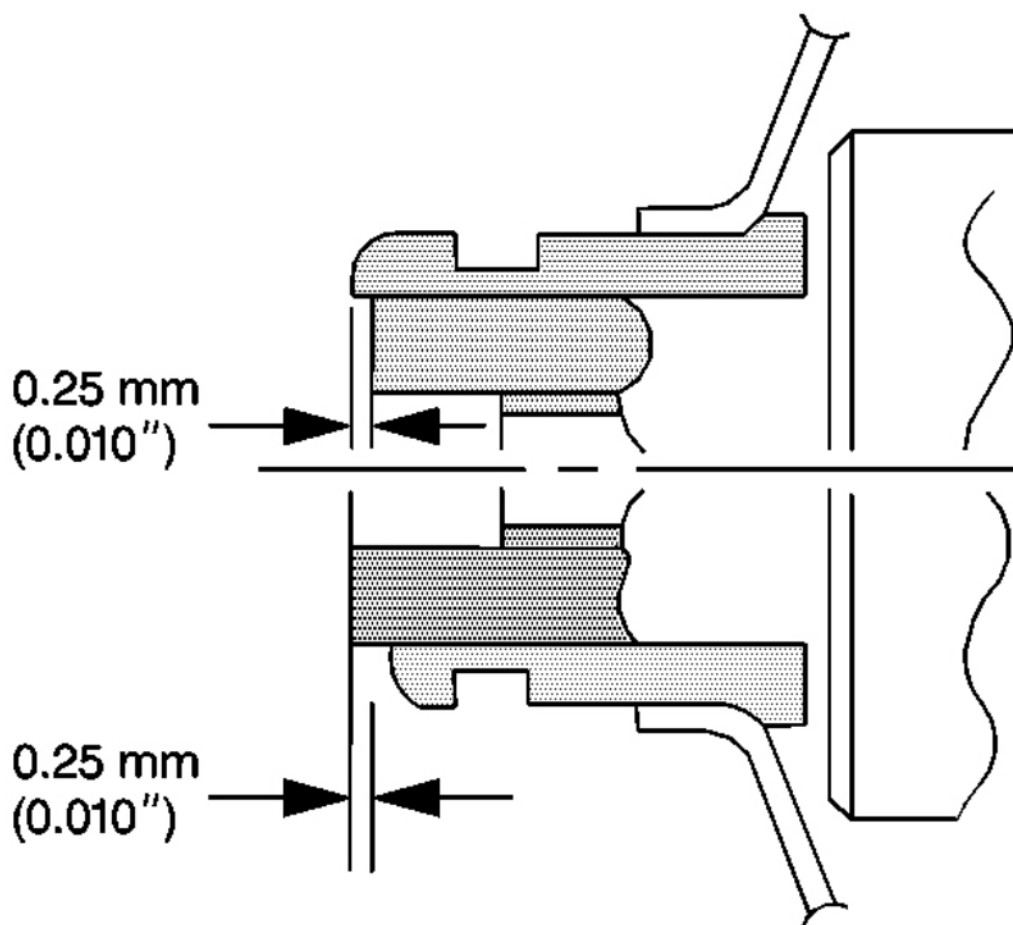


Fig. 21: Measuring Axial Tolerance Of Power Steering Pulley On Pump
Courtesy of GENERAL MOTORS CORP.

2. Ensure that the axial tolerance of the power steering pulley on the power steering pump is within 0.25 mm (0.010 in).
3. Install the drive belt. Refer to **Drive Belt Replacement - Power Steering and Air Conditioning** in Engine Mechanical - 3.6L (LY7) or **Drive Belt Replacement - Air Conditioning, Power Steering and Water Pump** in Engine Mechanical - 4.6L (LH2).
4. Install the air cleaner intake duct. Refer to **Air Cleaner Intake Duct Replacement** in Engine Controls - 3.6L (LY7) or **Air Cleaner Outlet Duct Replacement** in Engine Controls - 4.6L (LH2).

POWER STEERING PUMP REPLACEMENT (LH2)

Removal Procedure

1. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
2. Remove the power steering pulley. Refer to **Power Steering Pulley Replacement**.
3. Place a drain pan under the vehicle.
4. Remove the air cleaner assembly. Refer to **Air Cleaner Assembly Replacement** in Engine Controls - 4.6L (LH2).

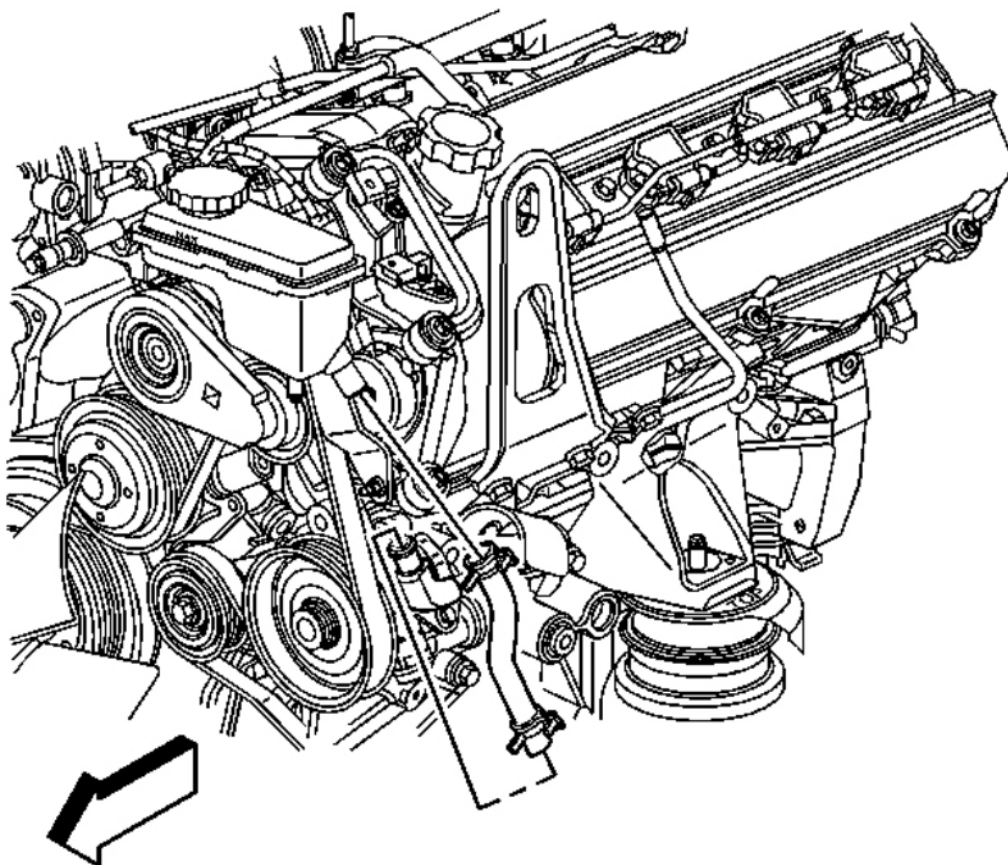


Fig. 22: View Of Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the power steering reservoir outlet hose from the power steering pump.
6. Disconnect the power steering pressure hose from the power steering pump.

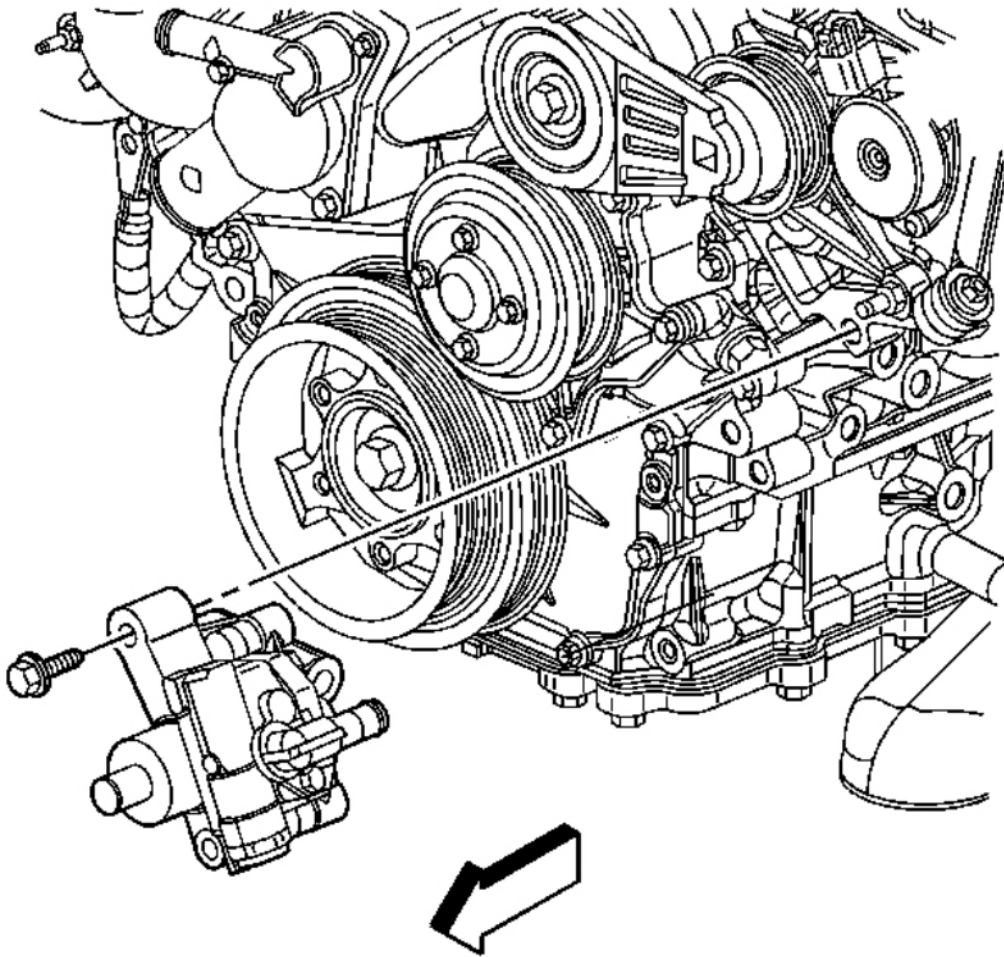


Fig. 23: View Of Power Steering Pump-To-Engine Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

7. Remove the power steering pump to engine mounting bolt.

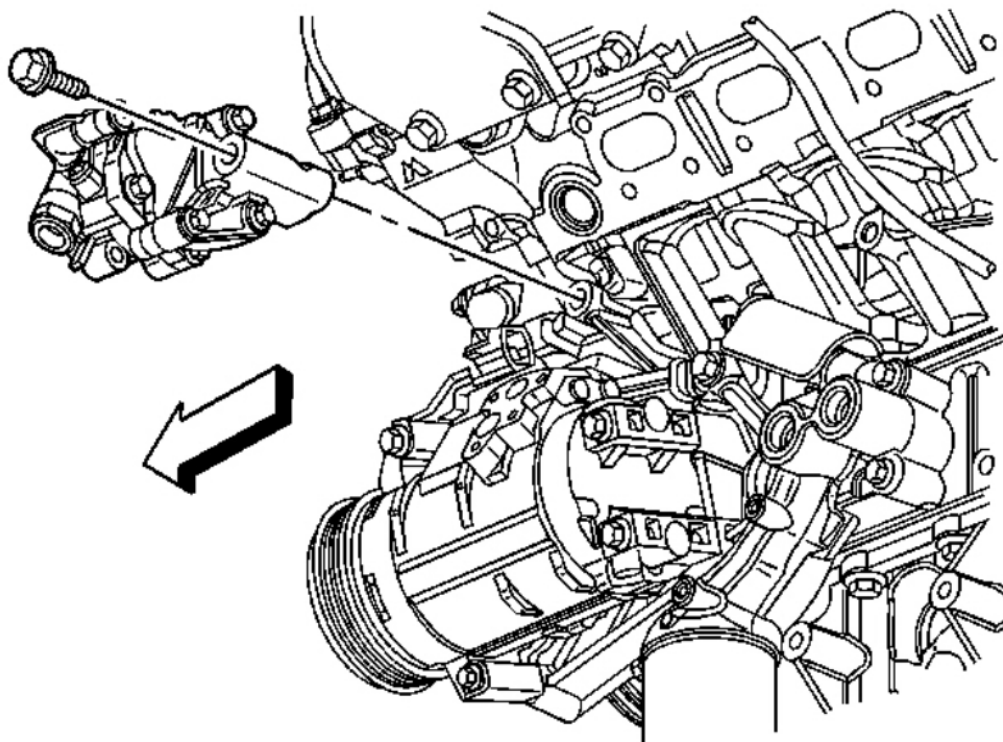


Fig. 24: View Of Power Steering Pump
Courtesy of GENERAL MOTORS CORP.

8. Remove the power steering bracket to the engine bolts.
9. Remove the power steering pump with bracket from the vehicle.
10. Remove the power steering pump to power steering bracket. Refer to **Power Steering Pump Bracket Replacement (LH2)** or **Power Steering Pump Bracket Replacement (LY7)**.

Installation Procedure

1. Install the power steering pump to power steering bracket. Refer to **Power Steering Pump Bracket Replacement (LH2)** or **Power Steering Pump Bracket Replacement (LY7)**.
2. Install the power steering pump with bracket to the vehicle.

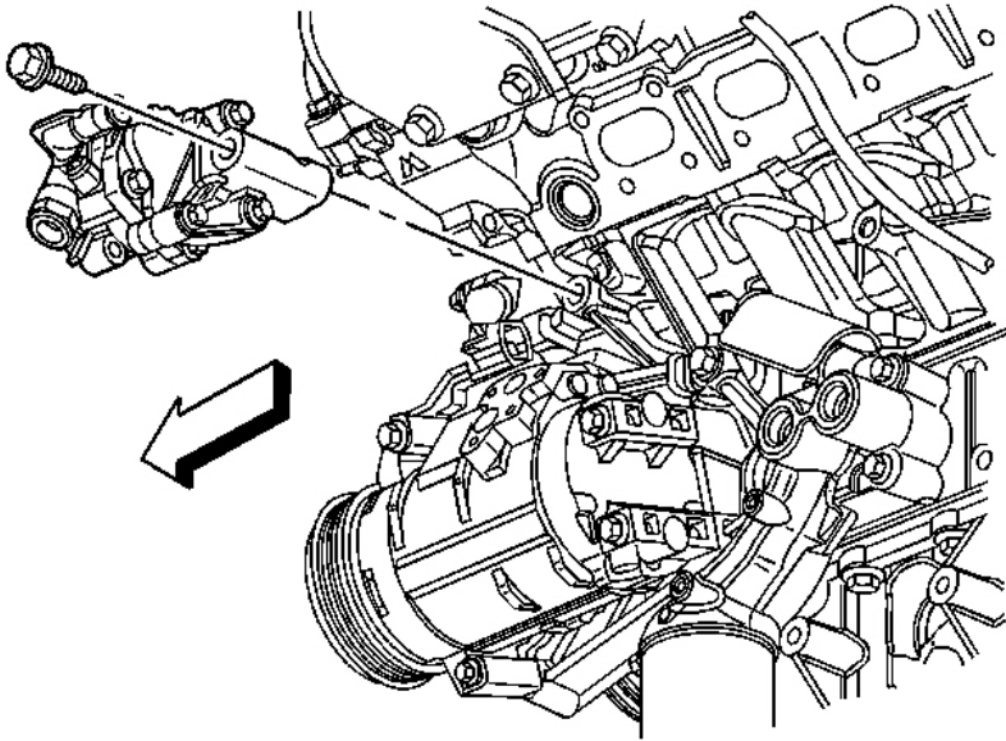


Fig. 25: View Of Power Steering Pump
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the power steering bracket to the engine bolts.

Tighten: Tighten the bolt to 50 N.m (37 lb ft).

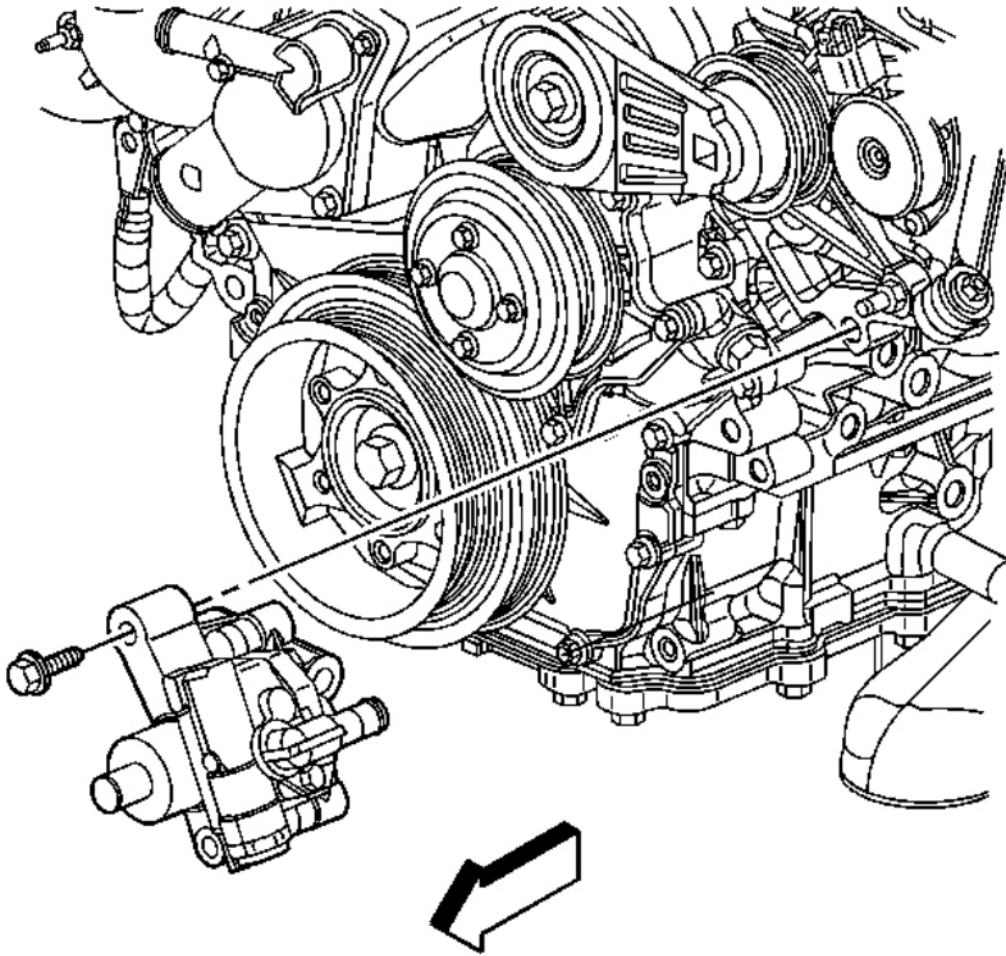


Fig. 26: View Of Power Steering Pump-To-Engine Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

4. Install the power steering pump to the engine mounting bolt.

Tighten: Tighten the bolt to 50 N.m (37 lb ft).

5. Connect the power steering pressure hose to the power steering pump.

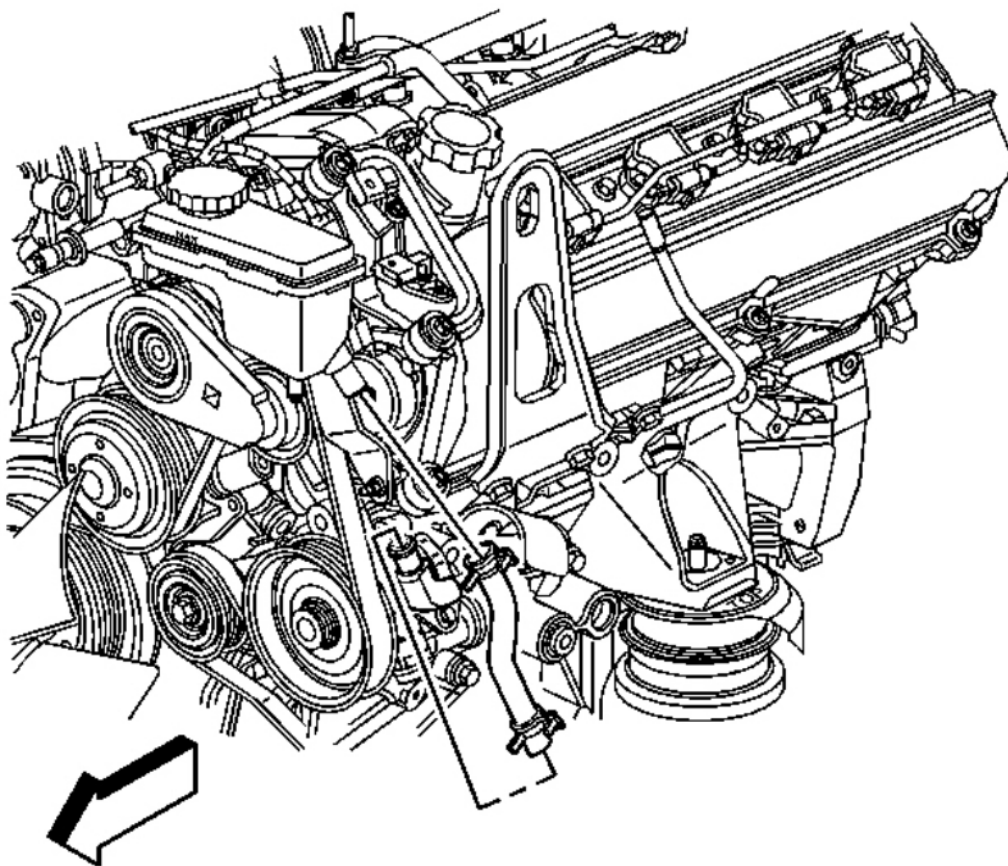


Fig. 27: View Of Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

6. Connect the power steering reservoir outlet hose to the power steering pump.
7. Remove the drain pan from under the vehicle.
8. Install the power steering pulley. Refer to **Power Steering Pulley Replacement**.
9. Install the air cleaner assembly. Refer to **Air Cleaner Assembly Replacement** in Engine Controls - 4.6L (LH2).
10. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.
11. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.

Removal Procedure

1. Remove the front air deflector. Refer to [Air Deflector Replacement - Front](#) in Body Front End.
2. Remove the power steering pulley. Refer to [Power Steering Pulley Replacement](#).
3. Place a drain pan under the vehicle.
4. Remove the air cleaner assembly. Refer to [Air Cleaner Assembly Replacement](#) in Engine Controls - 3.6L (LY7).

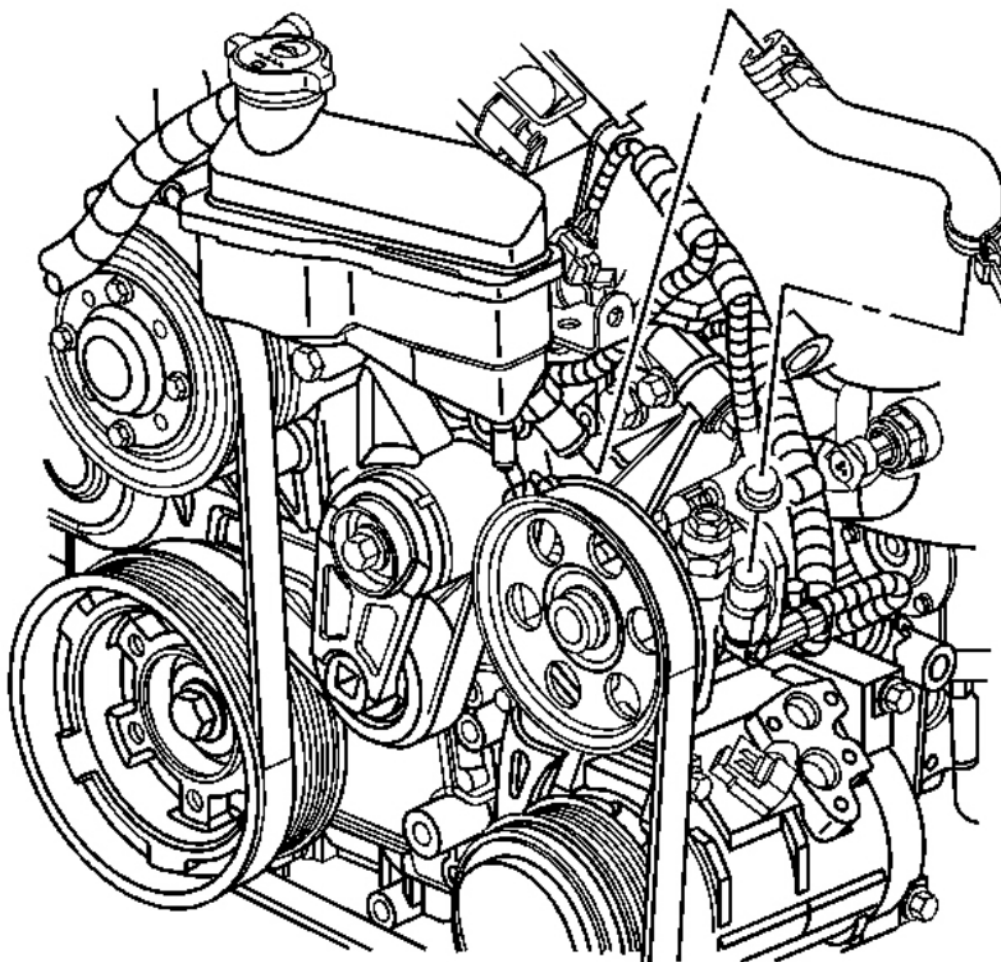


Fig. 28: Identifying Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the power steering reservoir outlet hose from the power steering pump.
6. Disconnect the power steering pressure hose from the power steering pump.

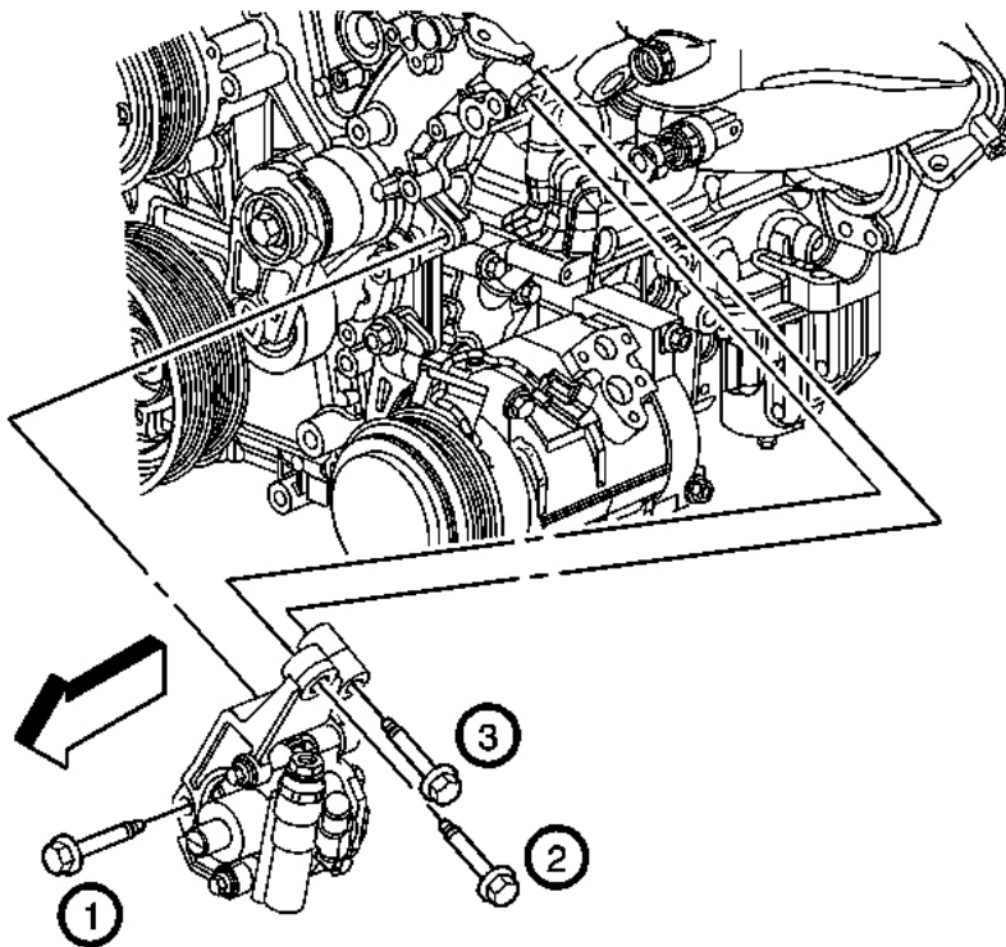


Fig. 29: View Of Power Steering Bracket Bolts
Courtesy of GENERAL MOTORS CORP.

7. Remove the power steering bracket to the engine mounting bolts (1, 2, and 3).
8. Remove the power steering pump with bracket from the vehicle.
9. Remove the power steering pump bracket from the power steering pump. Refer to **Power Steering Pump Bracket Replacement (LH2)** or **Power Steering Pump Bracket Replacement (LY7)**.

Installation Procedure

1. Install the power steering pump to the power steering pump bracket. Refer to **Power Steering Pump Bracket Replacement (LH2)** or **Power Steering Pump Bracket Replacement (LY7)**.

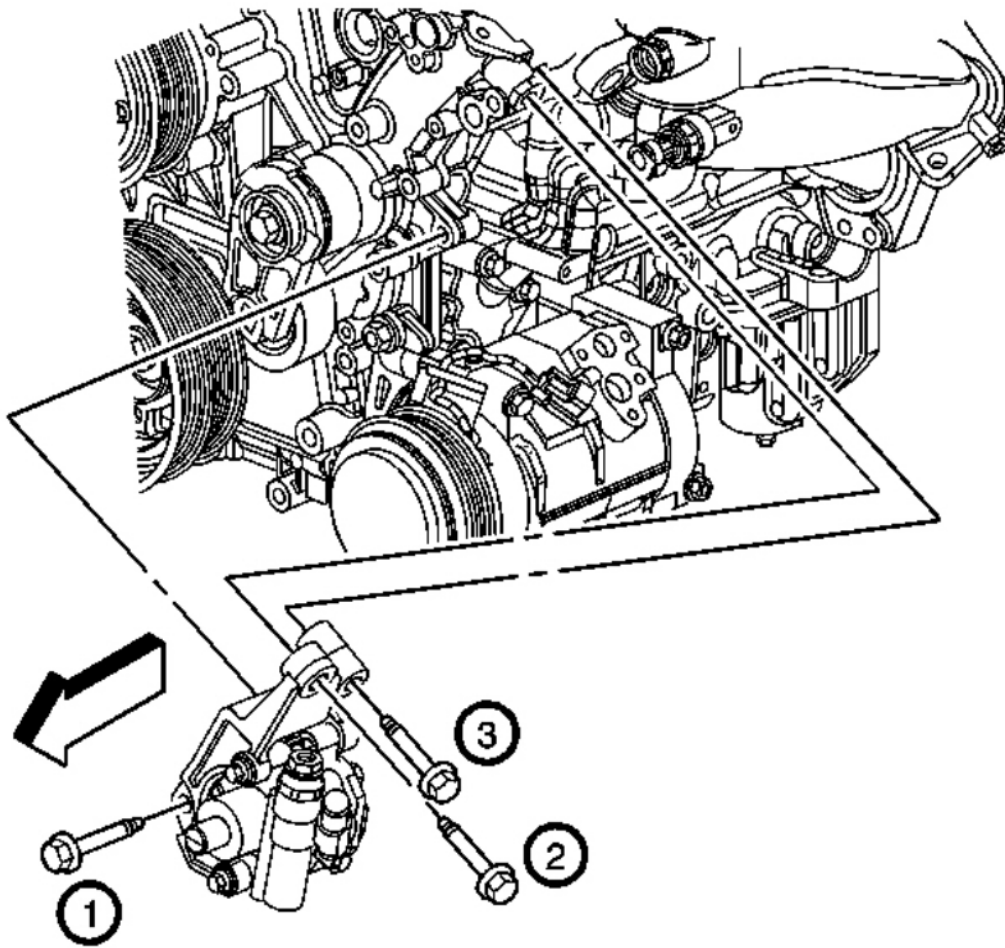


Fig. 30: View Of Power Steering Bracket Bolts
Courtesy of GENERAL MOTORS CORP.

2. Install the power steering pump with bracket to the vehicle.

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

3. Install the power steering pump bracket to the engine mounting bolts (1, 2 and 3).

Tighten: Tighten the bolts in sequence to 50 N.m (37 lb ft).

4. Connect the power steering pressure hose to the power steering pump.

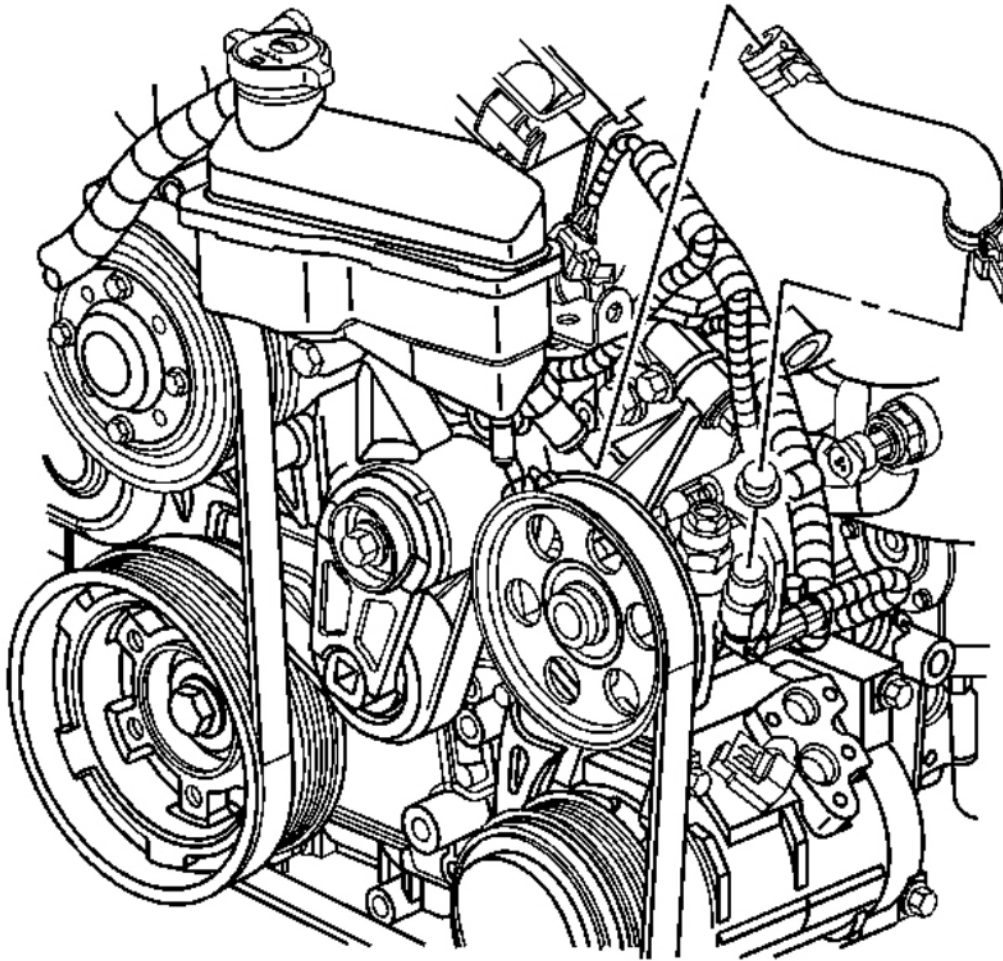


Fig. 31: Identifying Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

5. Connect the power steering reservoir outlet hose to the power steering pump.
6. Remove the drain pan from under the vehicle.

7. Install the power steering pulley. Refer to **Power Steering Pulley Replacement**.
8. Install the air cleaner assembly. Refer to **Air Cleaner Assembly Replacement** in Engine Controls - 3.6L (LY7).
9. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.
10. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.

POWER STEERING PUMP BRACKET REPLACEMENT (LH2)

Removal Procedure

1. Remove the power steering pump. Refer to **Power Steering Pump Replacement (LH2)** or **Power Steering Pump Replacement (LY7)**.

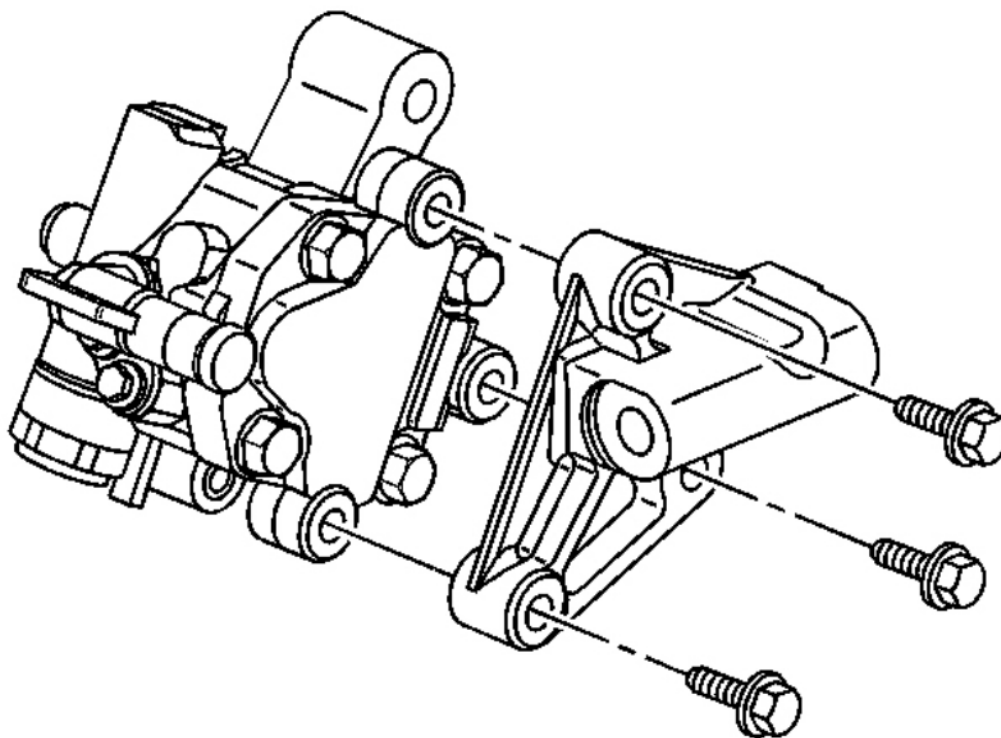


Fig. 32: View Of Power Steering Pump Bracket - LH2
Courtesy of GENERAL MOTORS CORP.

2. Remove the power steering pump to bracket bolts.
3. Separate the power steering pump from the power steering bracket.

Installation Procedure

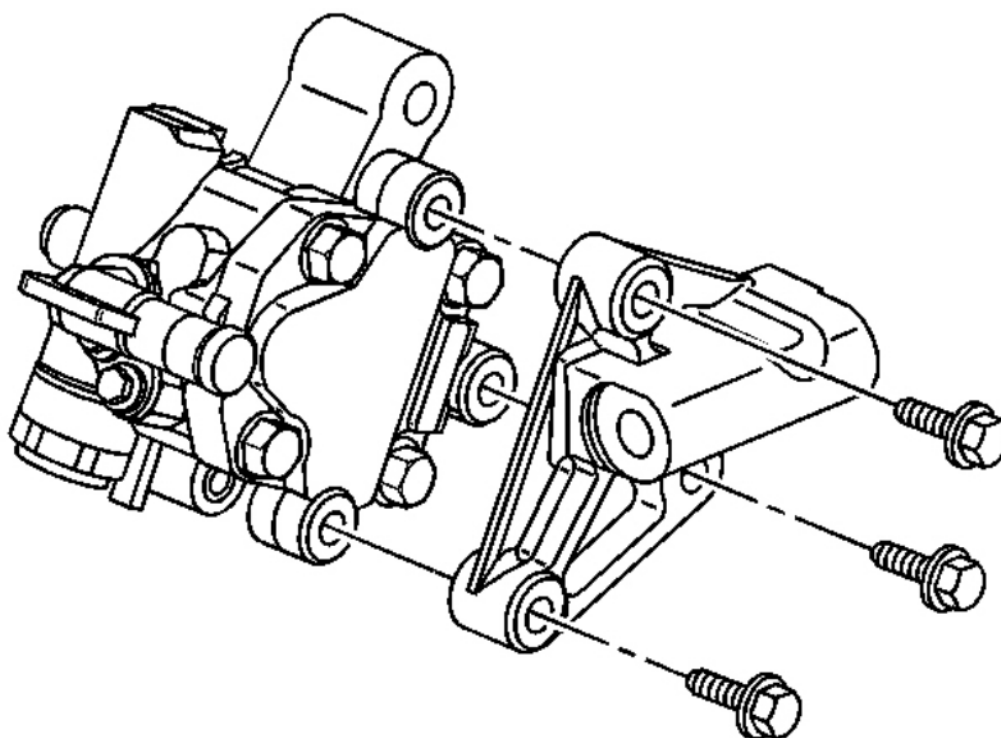


Fig. 33: View Of Power Steering Pump Bracket - LH2
Courtesy of GENERAL MOTORS CORP.

1. Install the power steering pump to the power steering bracket.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the Power steering pump to bracket bolts.

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

3. Install the power steering pump. Refer to Power Steering Pump Replacement (LH2) or

Power Steering Pump Replacement (LY7).

POWER STEERING PUMP BRACKET REPLACEMENT (LY7)

Removal Procedure

1. Remove the power steering pump. Refer to Power Steering Pump Replacement (LH2) or Power Steering Pump Replacement (LY7).

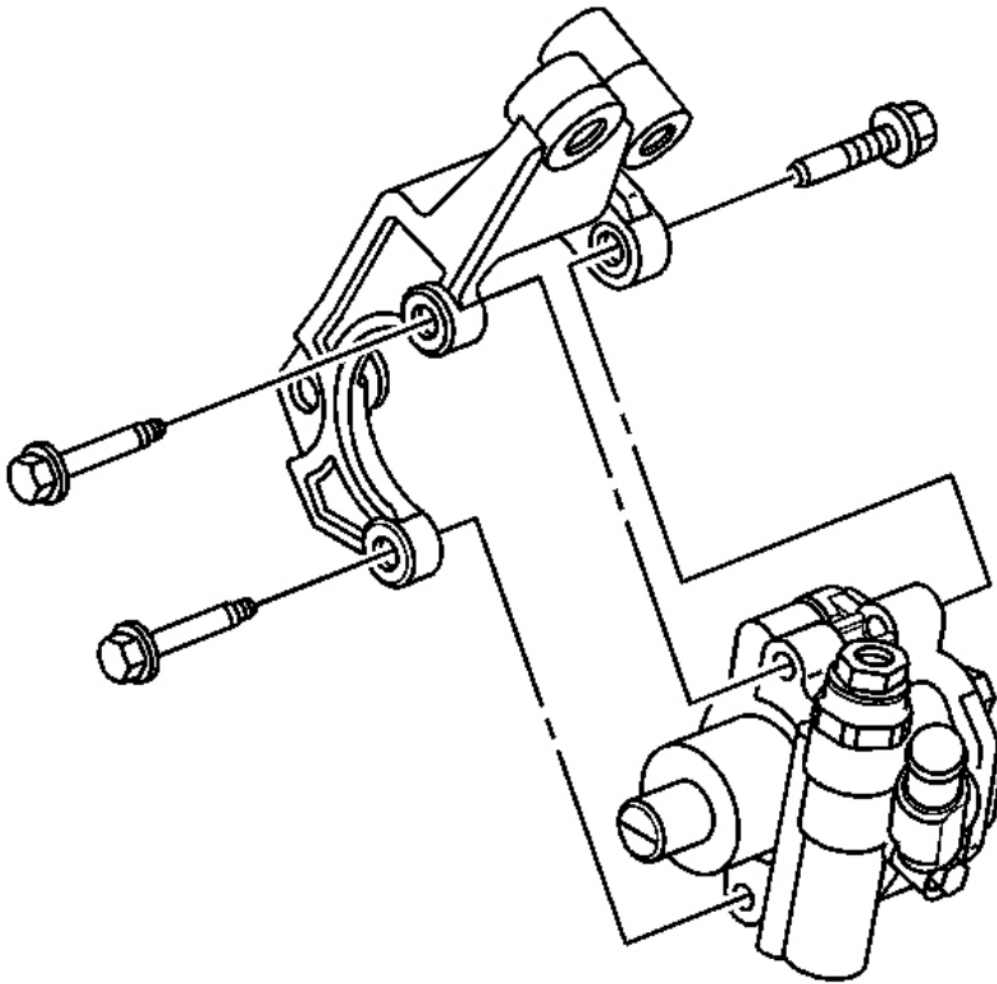


Fig. 34: View Of Power Steering Pump Bracket - LY7

Courtesy of GENERAL MOTORS CORP.

2. Remove the power steering pump to bracket bolts.
3. Separate the power steering pump from the power steering pump bracket.

Installation Procedure

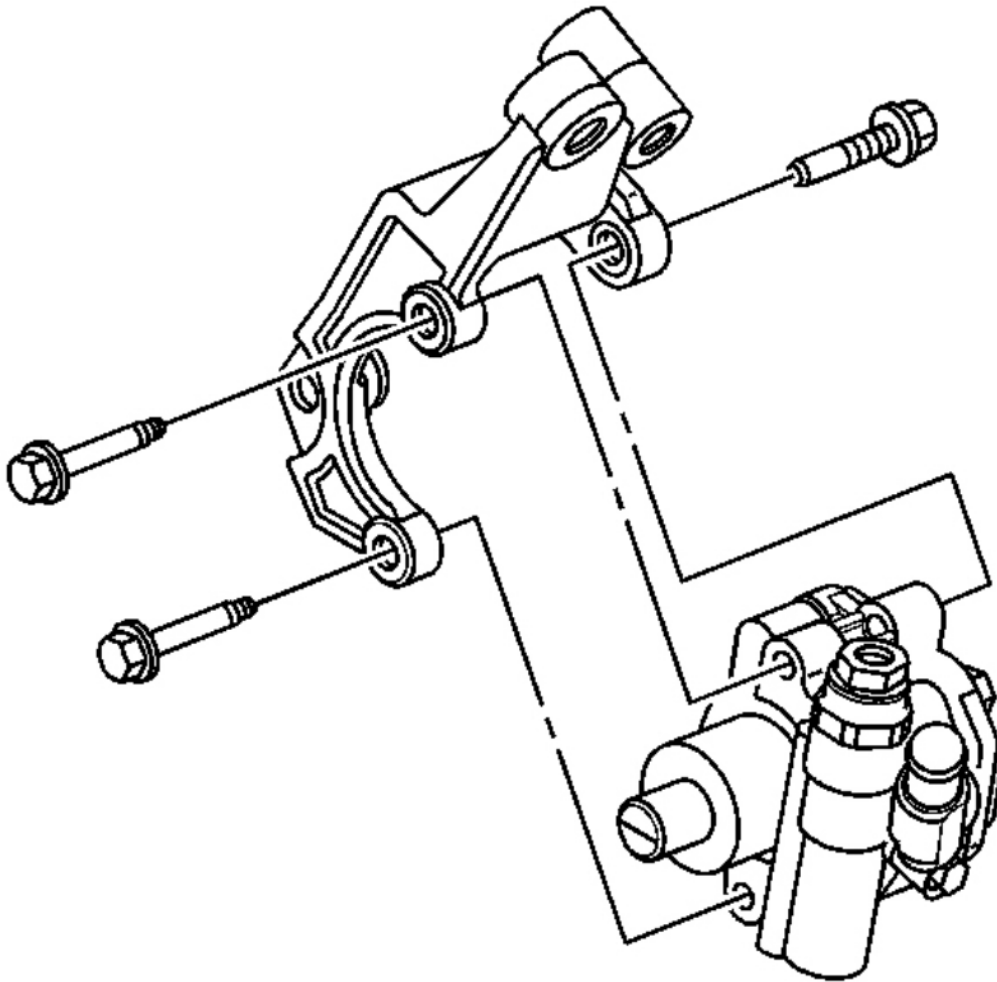


Fig. 35: View Of Power Steering Pump Bracket - LY7
Courtesy of GENERAL MOTORS CORP.

1. Install the power steering pump to the power steering bracket.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the Power steering pump to power steering pump bracket bolts.

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

3. Install the power steering pump. Refer to Power Steering Pump Replacement (LH2) or Power Steering Pump Replacement (LY7).

RACK AND PINION OUTER TIE ROD END REPLACEMENT

Tools Required

J 24319-B Steering Linkage and Tie Rod Puller

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.

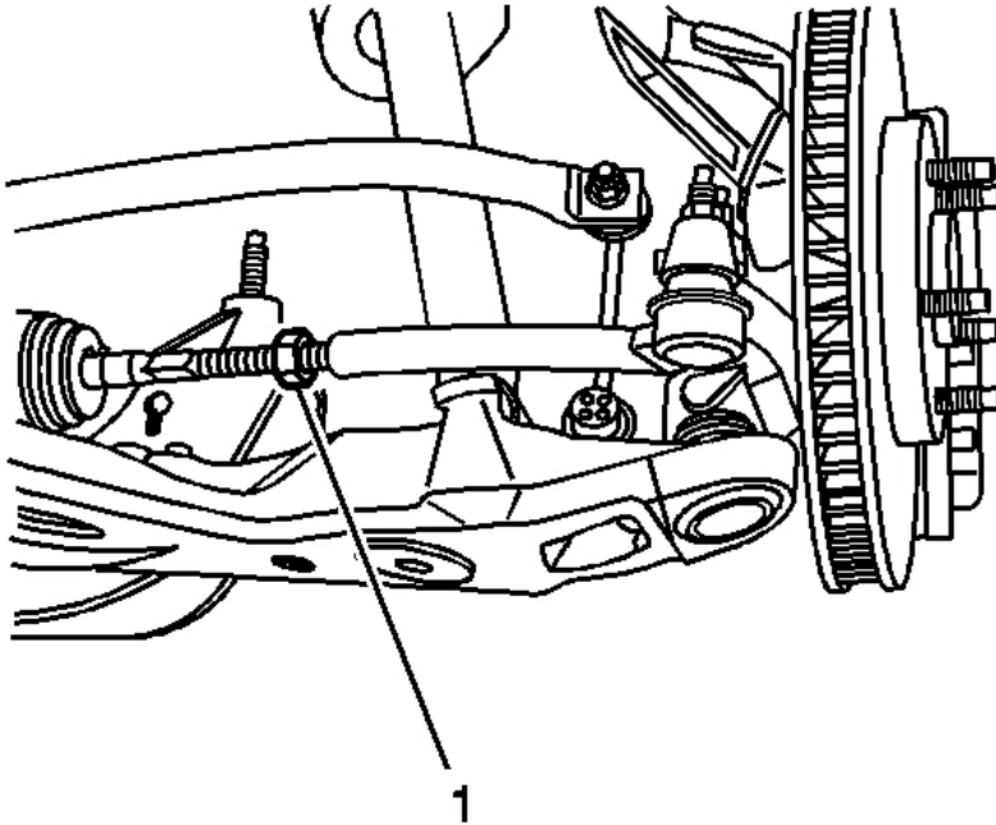


Fig. 36: View Of Outer Tie Rod Jam Nut
Courtesy of GENERAL MOTORS CORP.

3. Loosen the outer tie rod jam nut (1).

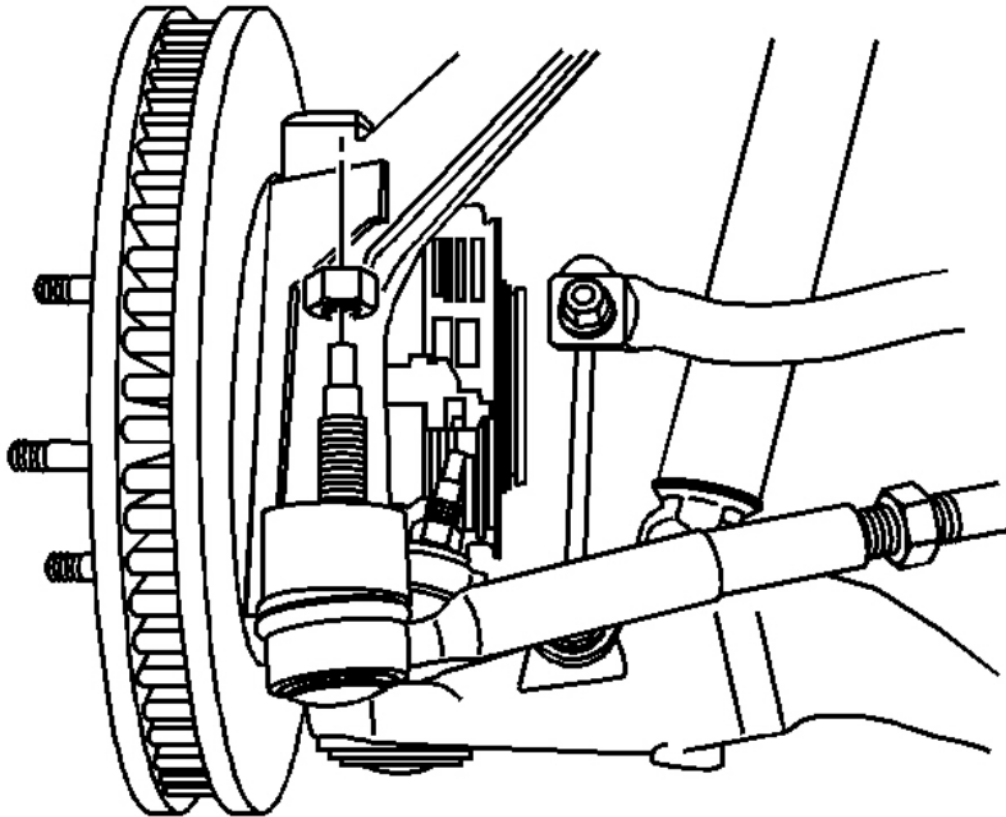


Fig. 37: View Of Outer Tie Rod-To-Steering Knuckle And Retaining Nut
Courtesy of GENERAL MOTORS CORP.

4. Remove the outer tie rod retaining nut.

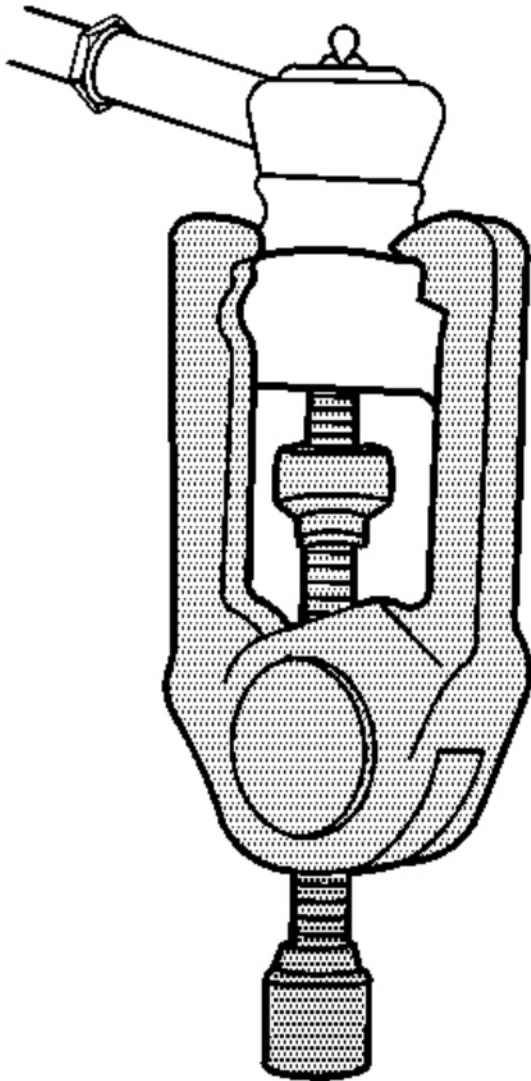


Fig. 38: Removing Outer Tie Rod Assembly From Steering Knuckle
Courtesy of GENERAL MOTORS CORP.

5. Using **J 24319-B** disconnect the outer tie rod from the steering knuckle.

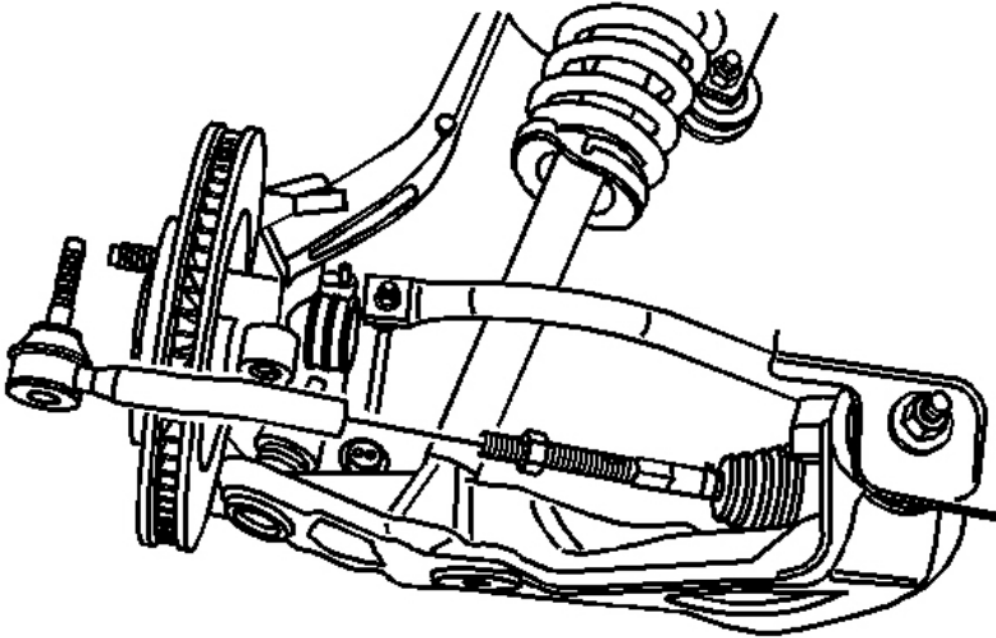


Fig. 39: View Of Outer Tie Rod & Inner Tie Rod
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Note the number of turns during removal for installation.

6. Remove the outer tie rod from the inner tie rod.

Installation Procedure

IMPORTANT: Use the same number of turns that was used during removal.

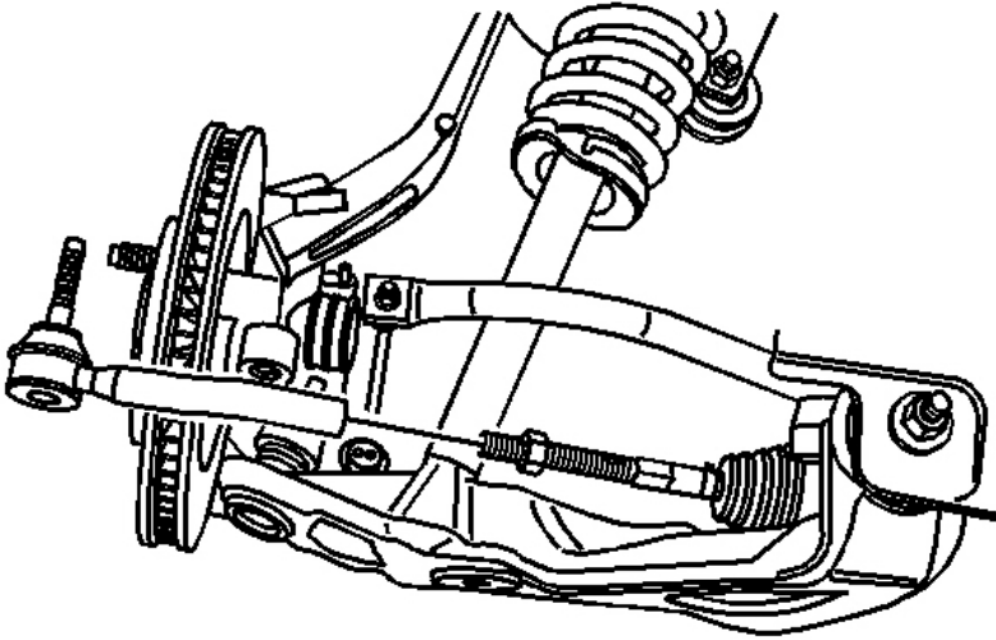


Fig. 40: View Of Outer Tie Rod & Inner Tie Rod
Courtesy of GENERAL MOTORS CORP.

1. Install the outer tie rod to the inner tie rod. Do not tighten the jam nut at this time.

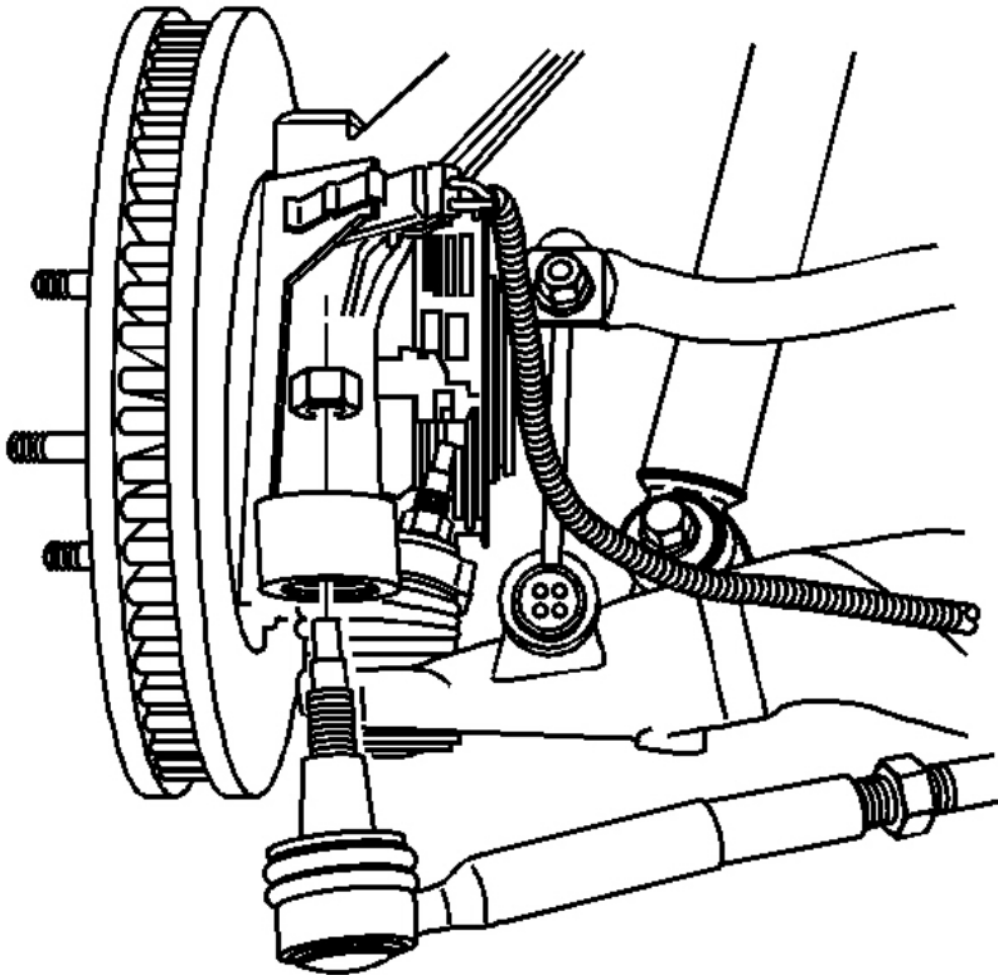


Fig. 41: View Of Outer Tie Rod & Steering Knuckle
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Connect the outer tie rod to the steering knuckle.

Install the outer tie rod retaining nut.

Tighten: Tighten the nut to 70 N.m (52 lb ft).

3. Install the tire and wheel. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
4. Lower the vehicle.
5. Adjust the front toe. Refer to **Front Toe Adjustment** in Wheel Alignment.

POWER STEERING COOLER PIPE/HOSE REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.

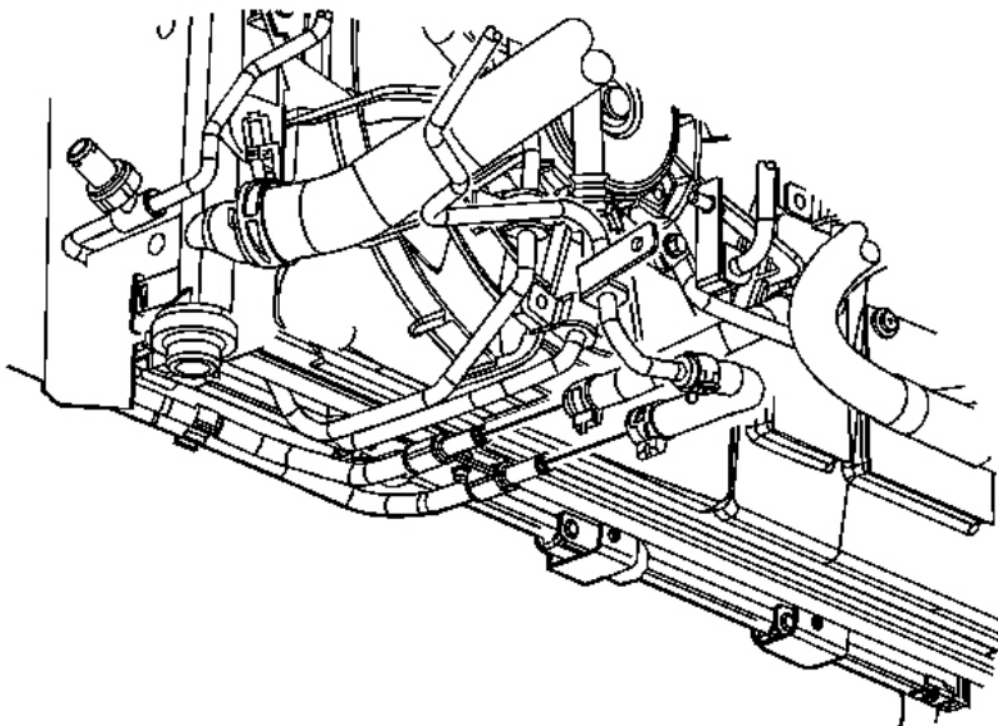


Fig. 42: View Of Power Steering Cooler Pipe/Hose & Power Steering Lines
Courtesy of GENERAL MOTORS CORP.

3. Disconnect the power steering cooler pipe/hose from the power steering lines.

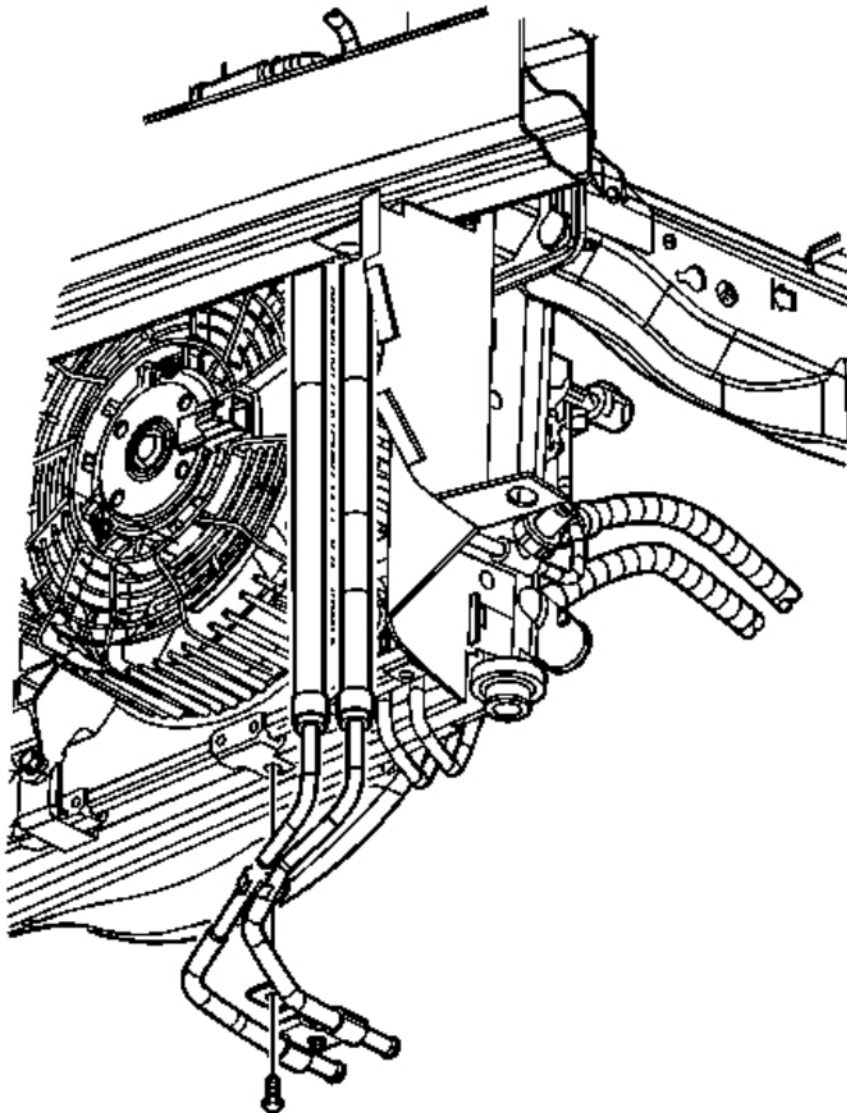


Fig. 43: View Of Power Steering Cooler Pipe/Hose-To-Frame Retaining Bolt
Courtesy of GENERAL MOTORS CORP.

4. Remove the power steering cooler pipe/hose to frame retaining bolt.

5. Lower the vehicle.

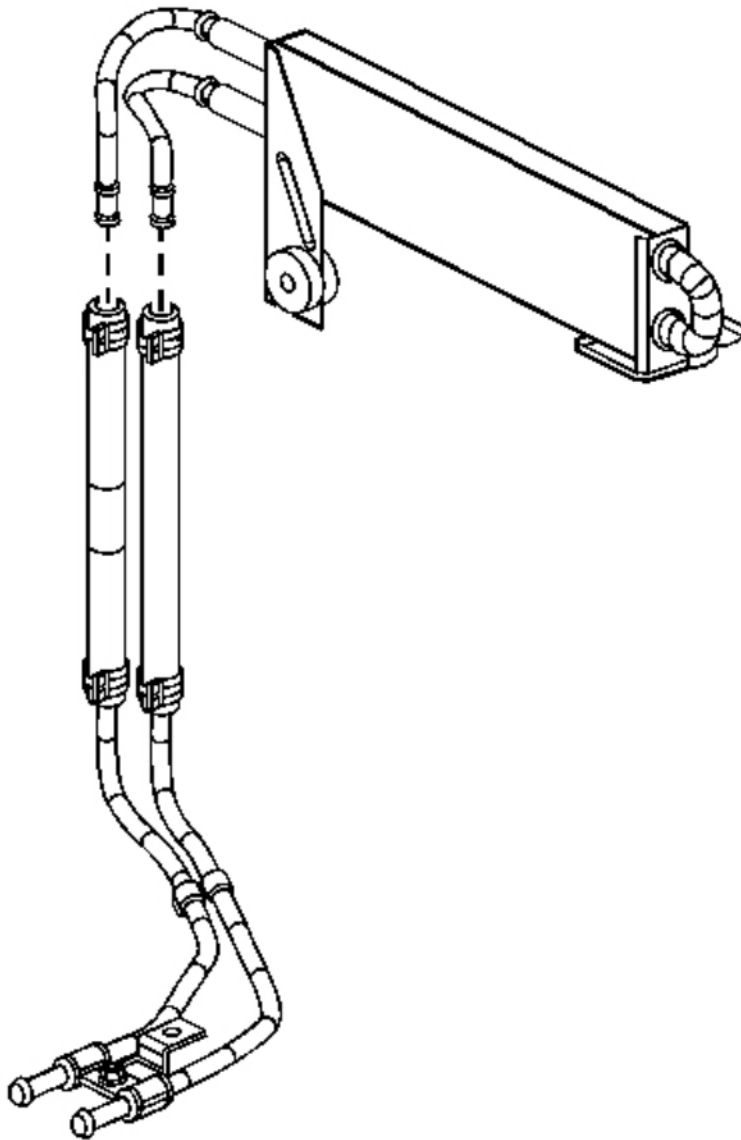


Fig. 44: View Of Power Steering Cooling Lines
Courtesy of GENERAL MOTORS CORP.

6. Disconnect the power steering cooler pipe/hose from the power steering cooler.

2004 Cadillac SRX

2004 STEERING Power Steering System - SRX

7. Remove the power steering cooler pipe/hose from the vehicle.

Installation Procedure

1. Position the power steering cooler pipe/hose to the vehicle.
2. Connect the power steering cooler pipe/hose to the power steering cooler.

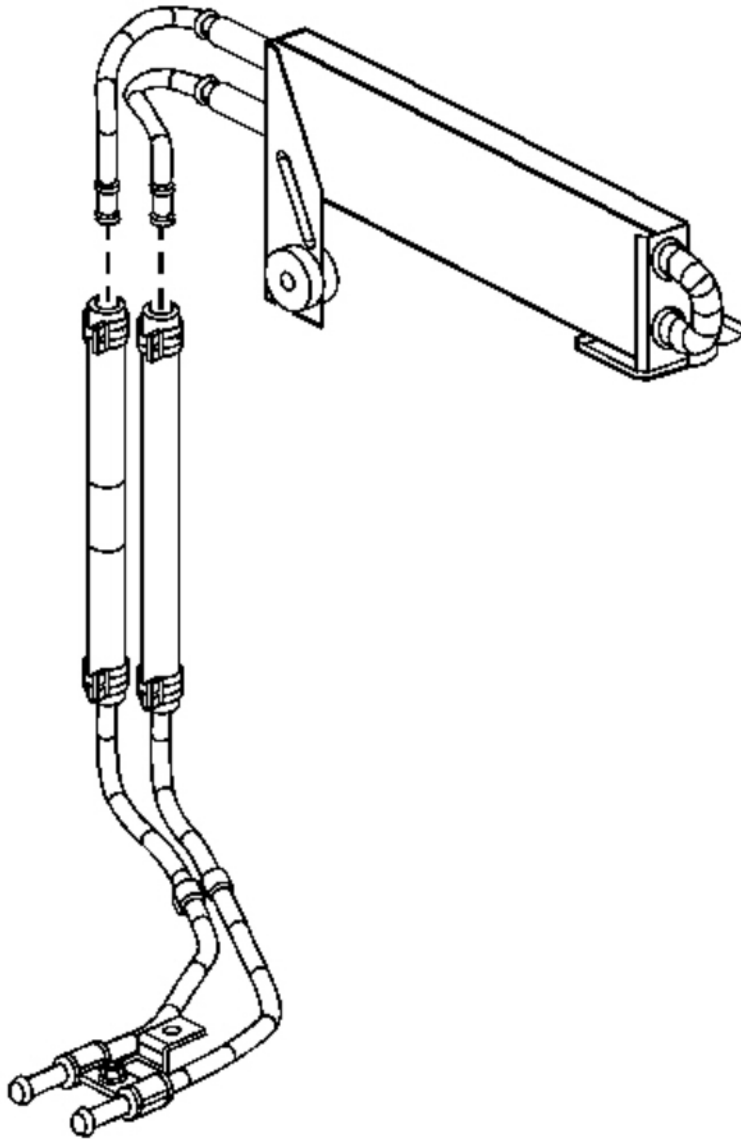


Fig. 45: View Of Power Steering Cooling Lines
Courtesy of GENERAL MOTORS CORP.

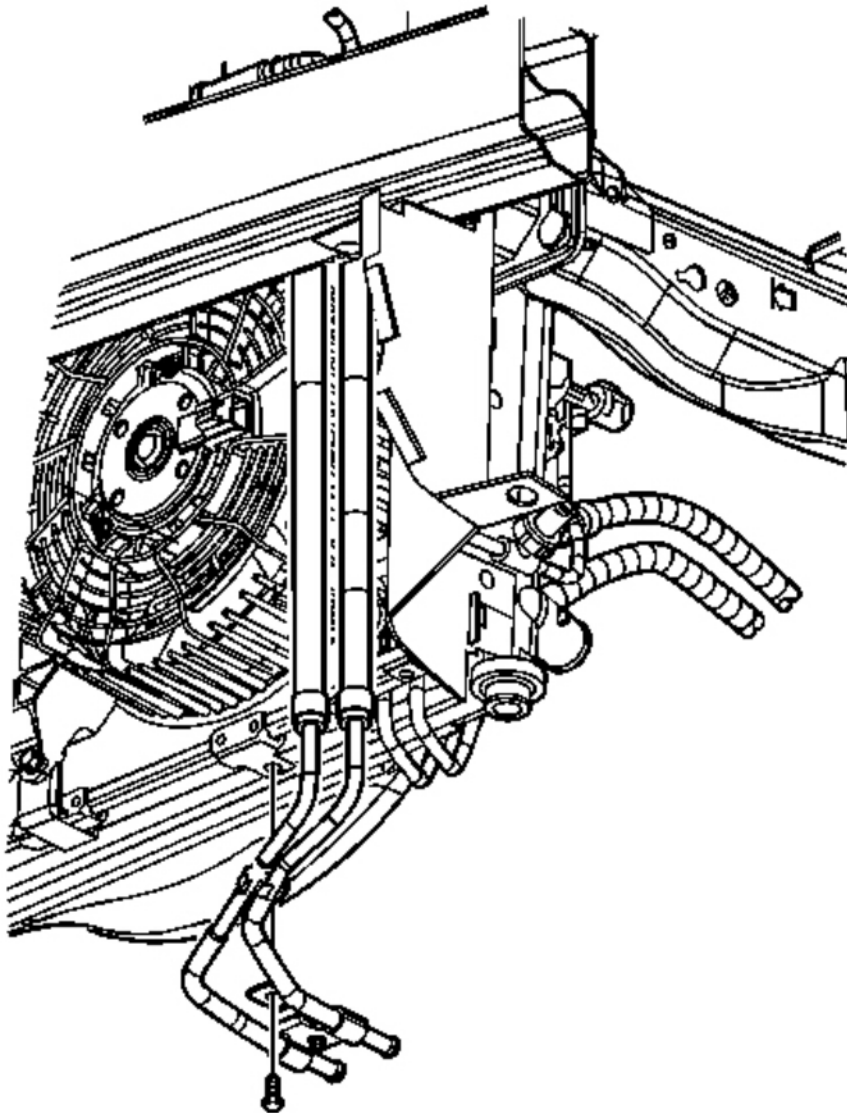


Fig. 46: View Of Power Steering Cooler Pipe/Hose-To-Frame Retaining Bolt
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the power steering cooler pipe/hose to frame retaining bolt.

Tighten: Tighten the bolts to 4 N.m (35 lb in).

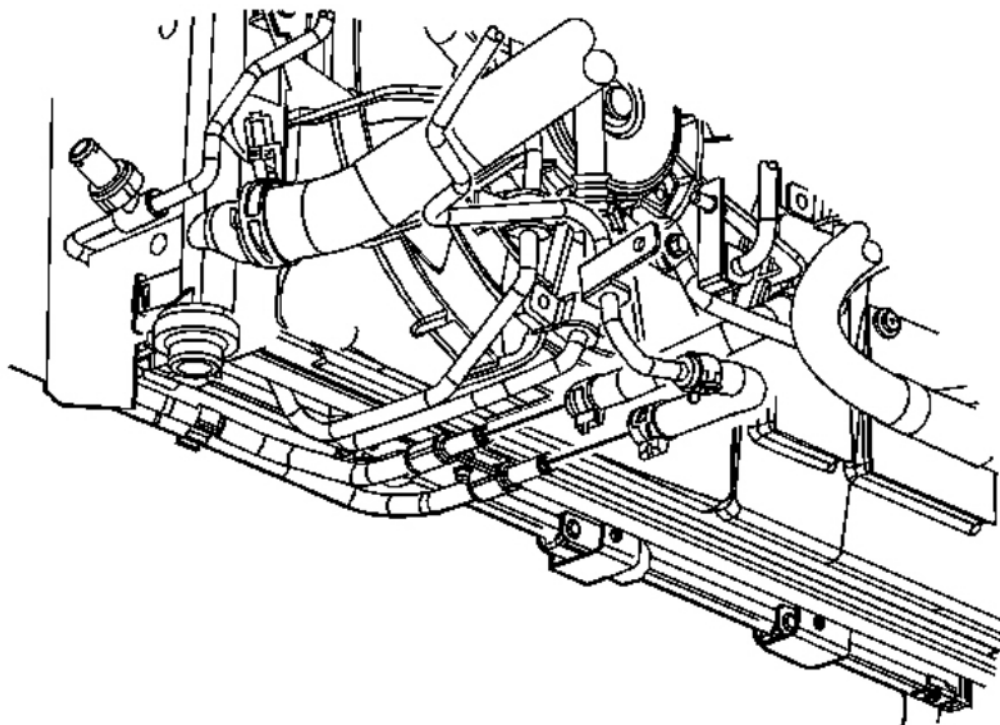


Fig. 47: View Of Power Steering Cooler Pipe/Hose & Power Steering Lines
Courtesy of GENERAL MOTORS CORP.

4. Connect the power steering cooler pipe/hose to the power steering lines.
5. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
6. Lower the vehicle.
7. Remove the drain pan from under the vehicle.
8. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.

POWER STEERING COOLER REPLACEMENT (LY7 W/O V92)

Removal Procedure

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle in General Information.
2. Remove the front air deflector. Refer to Air Deflector Replacement - Front in Body Front End.
3. Install a drain pan under the vehicle.

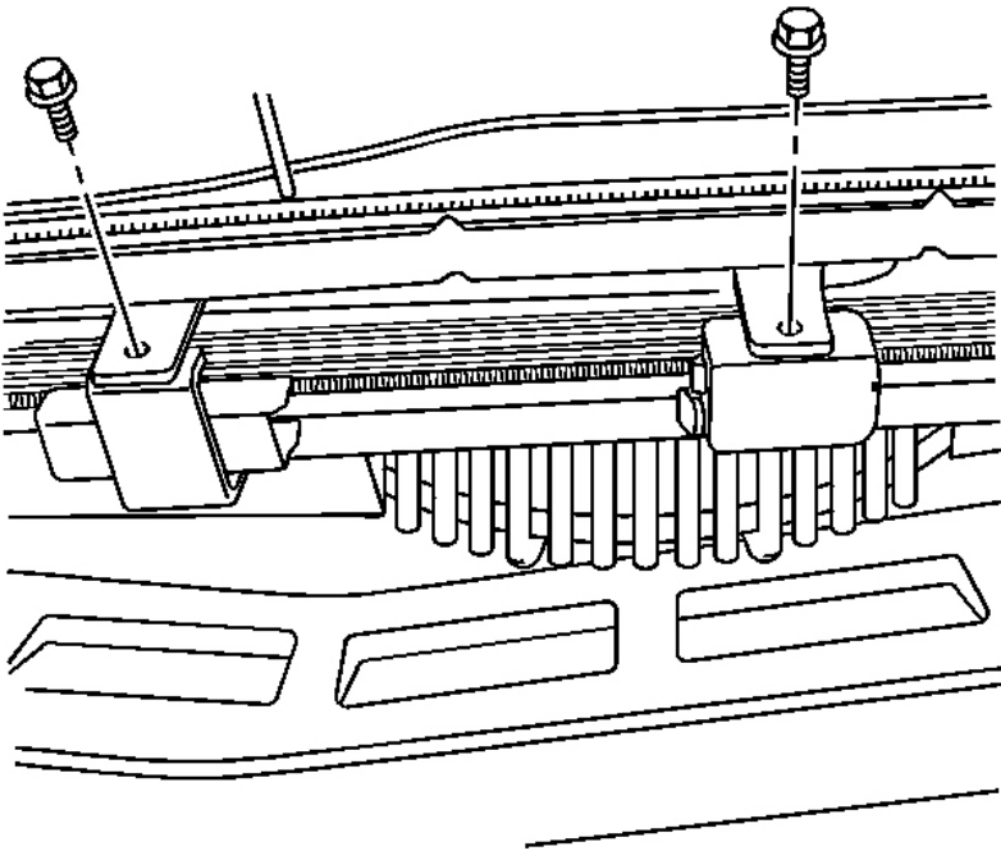


Fig. 48: View Of Power Steering Cooler Bolts
Courtesy of GENERAL MOTORS CORP.

4. Remove the power steering cooler bolts from the power steering cooler brackets.

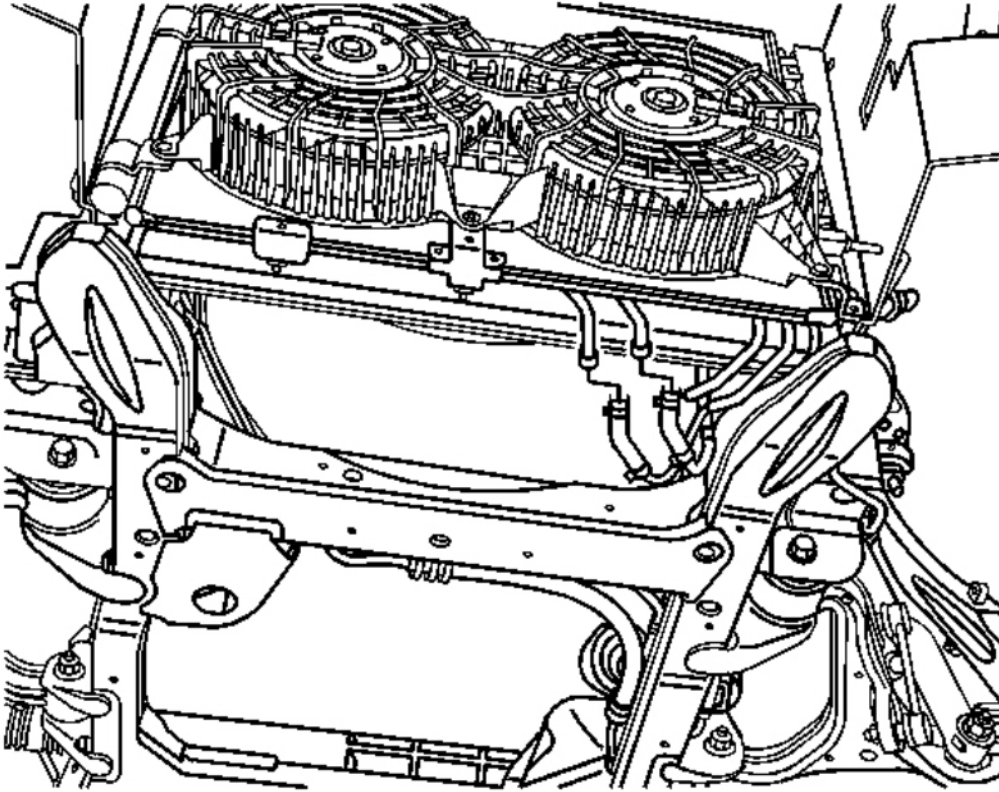


Fig. 49: View Of Power Steering Cooler
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the power steering lines from the power steering cooler.
6. Remove the power steering cooler from the vehicle.

Installation Procedure

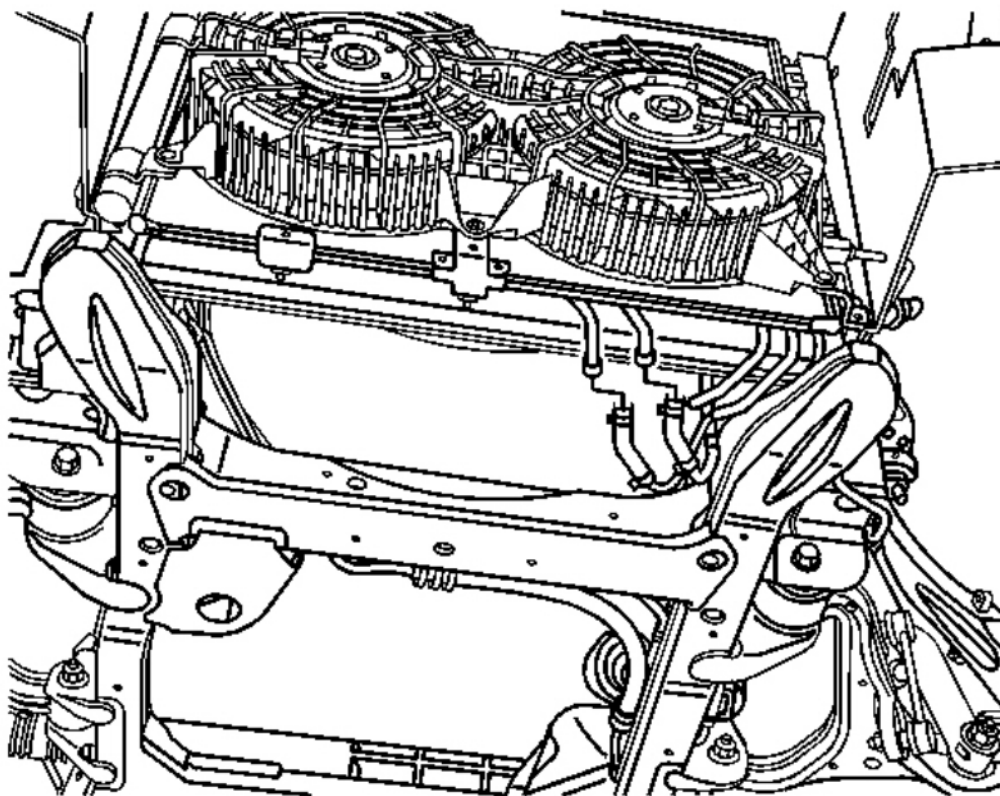


Fig. 50: View Of Power Steering Cooler
Courtesy of GENERAL MOTORS CORP.

1. Install the power steering cooler to the vehicle.
2. Connect the power steering lines to the power steering cooler.

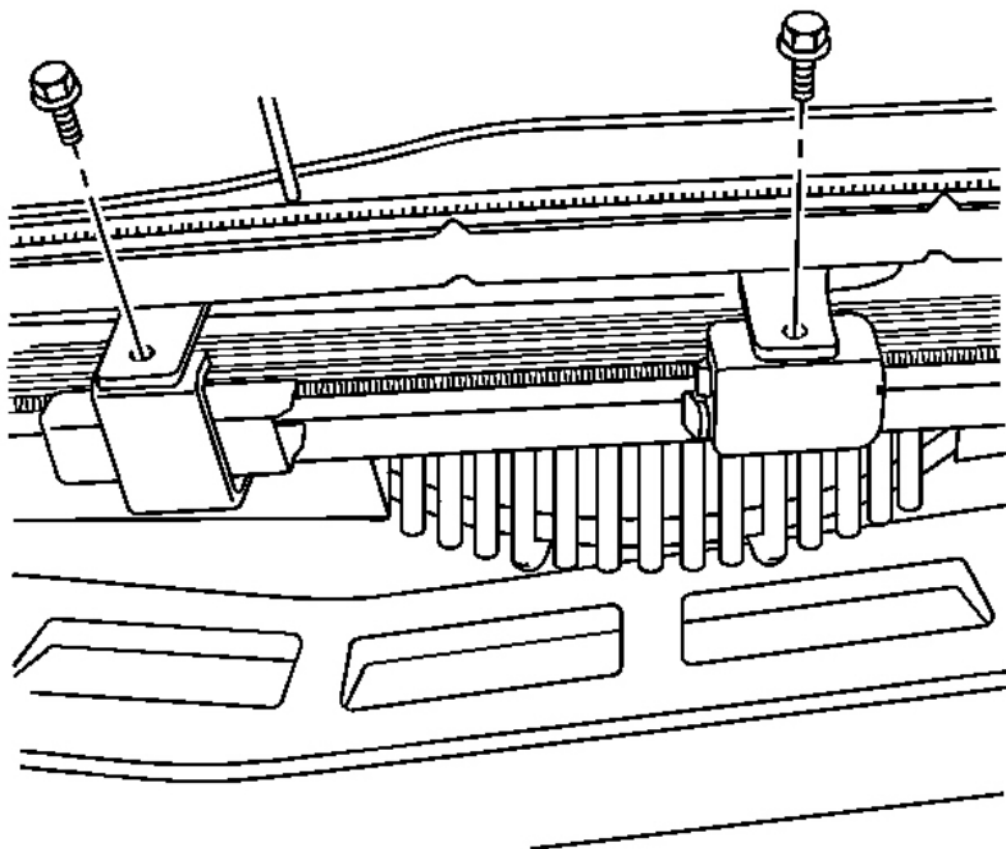


Fig. 51: View Of Power Steering Cooler Bolts
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the power steering cooler bolts to the power steering cooler brackets.

Tighten: Tighten the bolts to 9 N.m (80 lb in).

4. Remove the drain pan from under the vehicle.
5. Install the front air deflector. Refer to Air Deflector Replacement - Front in Body Front End.
6. Lower the vehicle.

7. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.

POWER STEERING COOLER REPLACEMENT (LH2 OR LY7 WITH V92)

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
3. Install a drain pan under the vehicle.

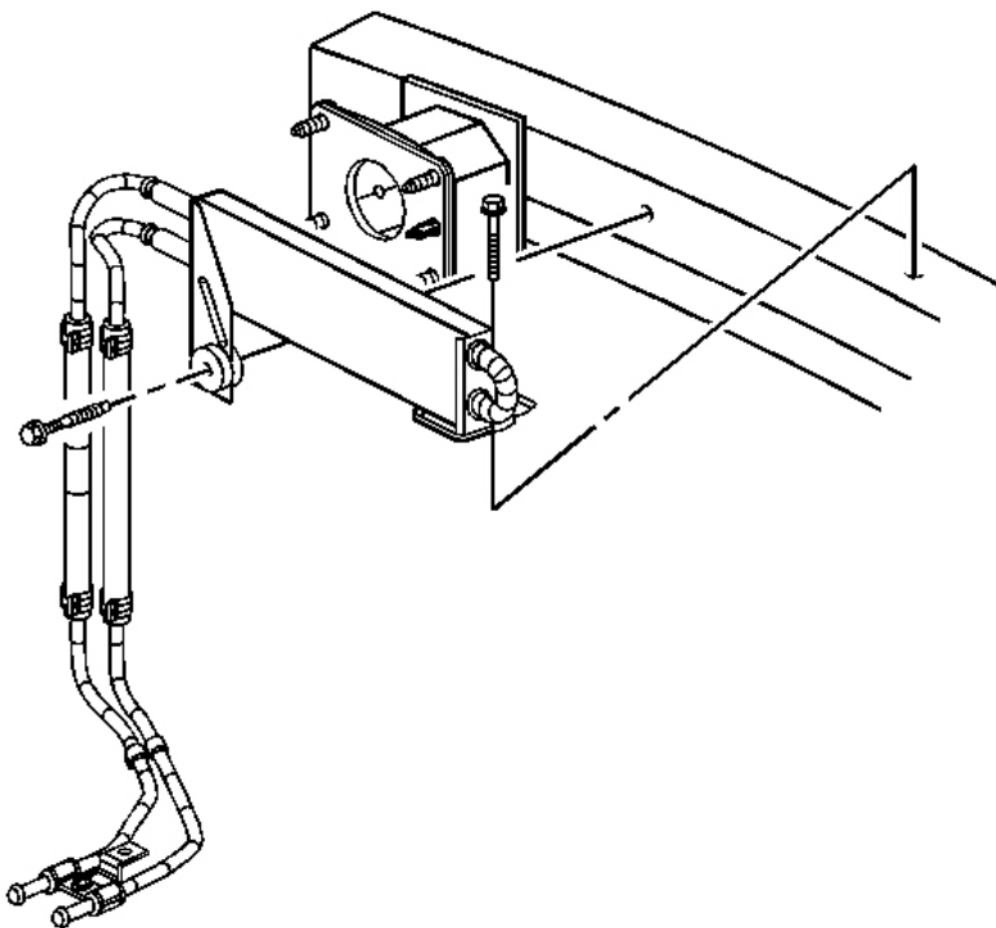


Fig. 52: Identifying Power Steering Cooler Bolts
Courtesy of GENERAL MOTORS CORP.

4. Remove the power steering cooler bolts from the power steering cooler brackets.

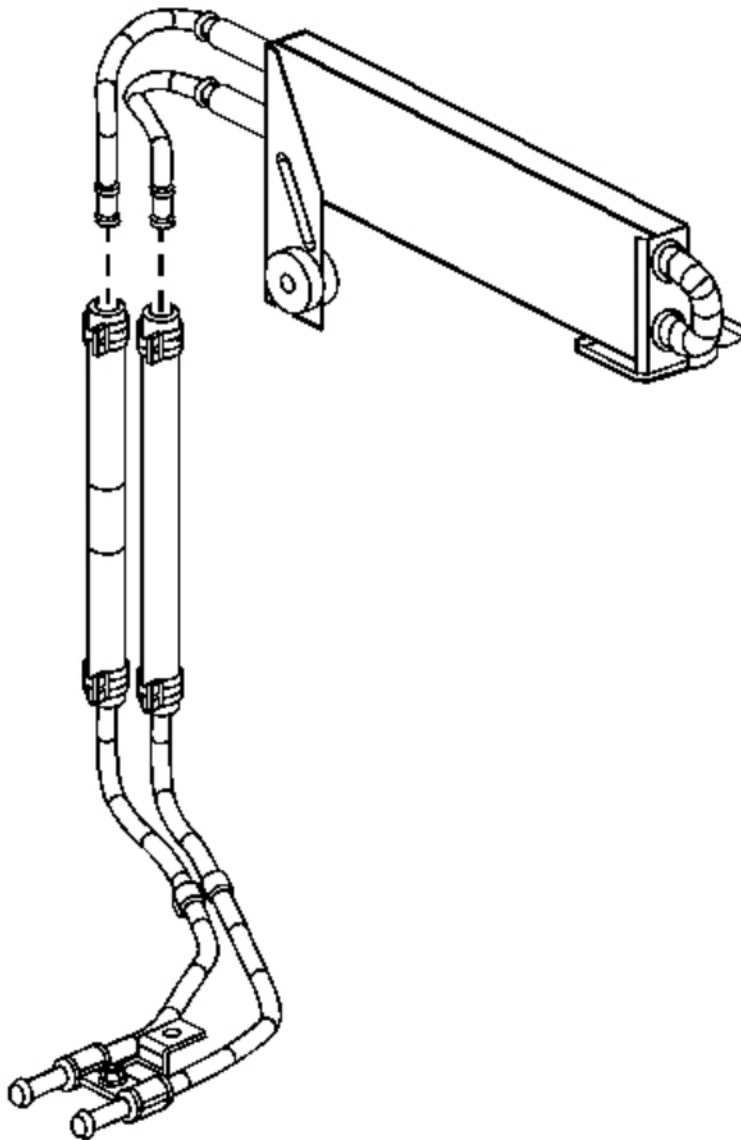


Fig. 53: View Of Power Steering Cooling Lines

Courtesy of GENERAL MOTORS CORP.

5. Disconnect the power steering lines from the power steering cooler.
6. Remove the power steering cooler from the vehicle.

Installation Procedure

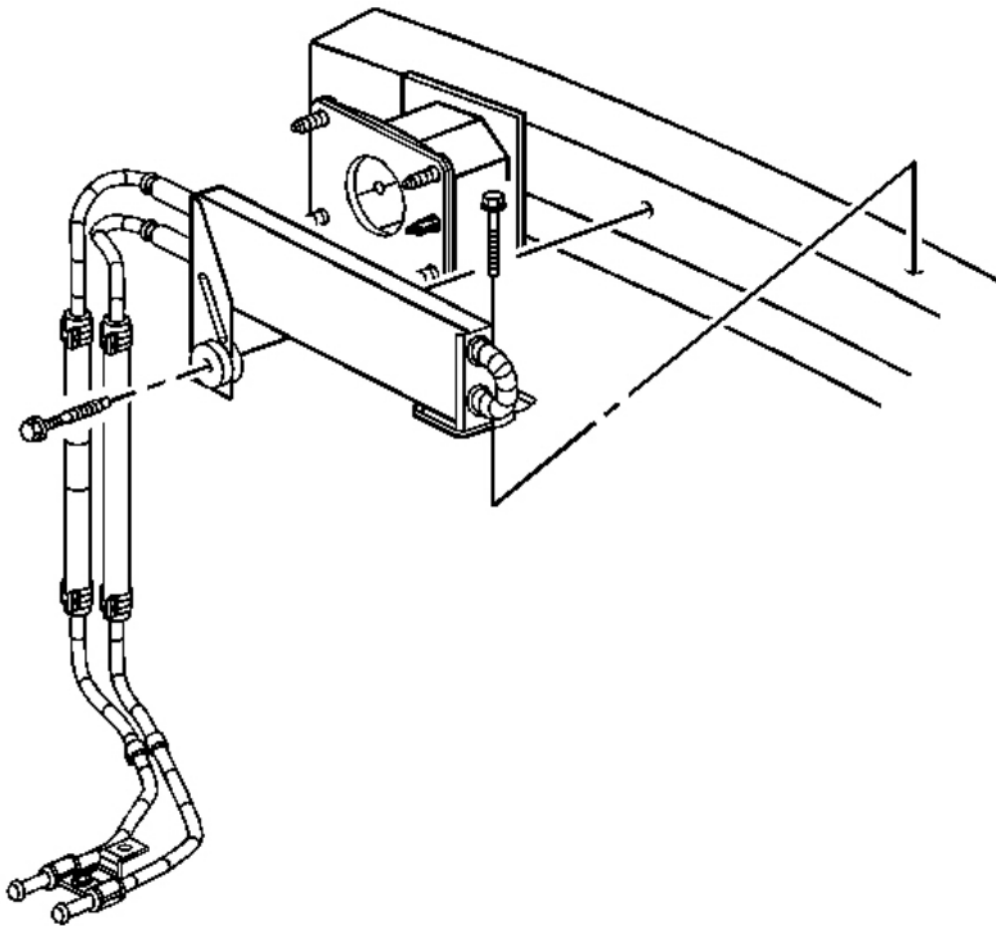


Fig. 54: Identifying Power Steering Cooler Bolts
Courtesy of GENERAL MOTORS CORP.

1. Install the power steering cooler to the vehicle.
2. Connect the power steering lines to the power steering cooler.

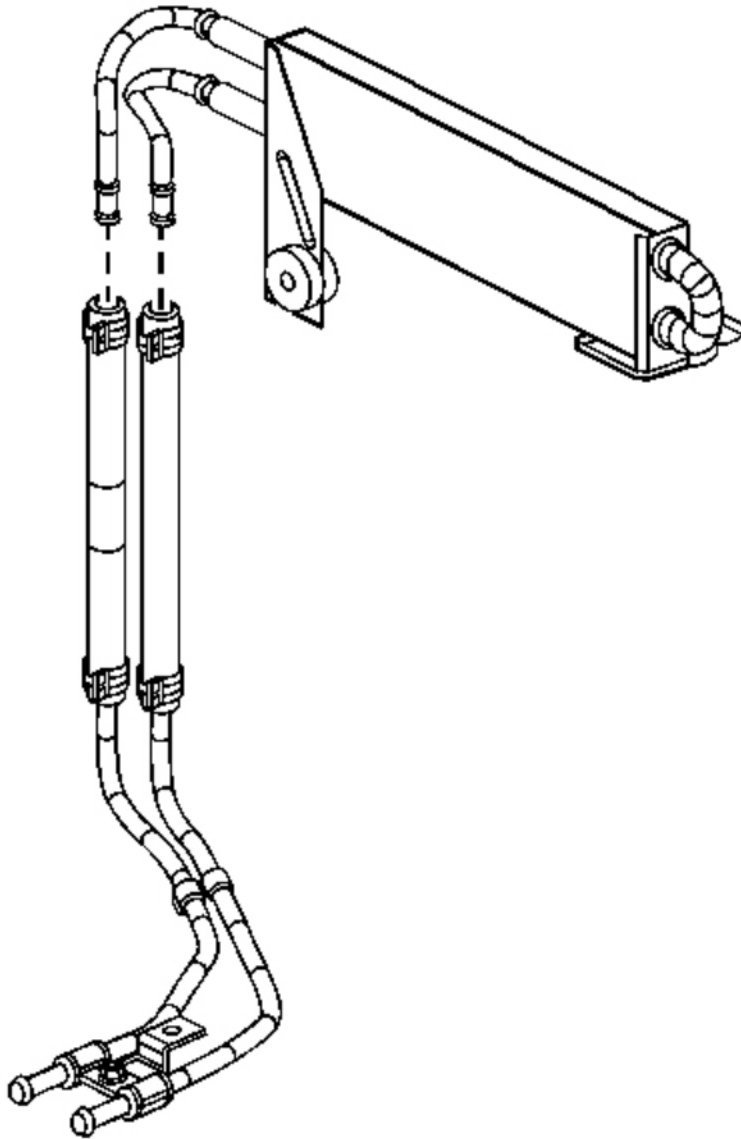


Fig. 55: View Of Power Steering Cooling Lines
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the power steering cooler bolts to the power steering cooler brackets.

Tighten: Tighten the bolts to 9 N.m (80 lb in).

4. Remove the drain pan from under the vehicle.
5. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
6. Lower the vehicle.
7. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.

POWER STEERING RESERVOIR INLET PIPE/HOSE REPLACEMENT (LH2)

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.

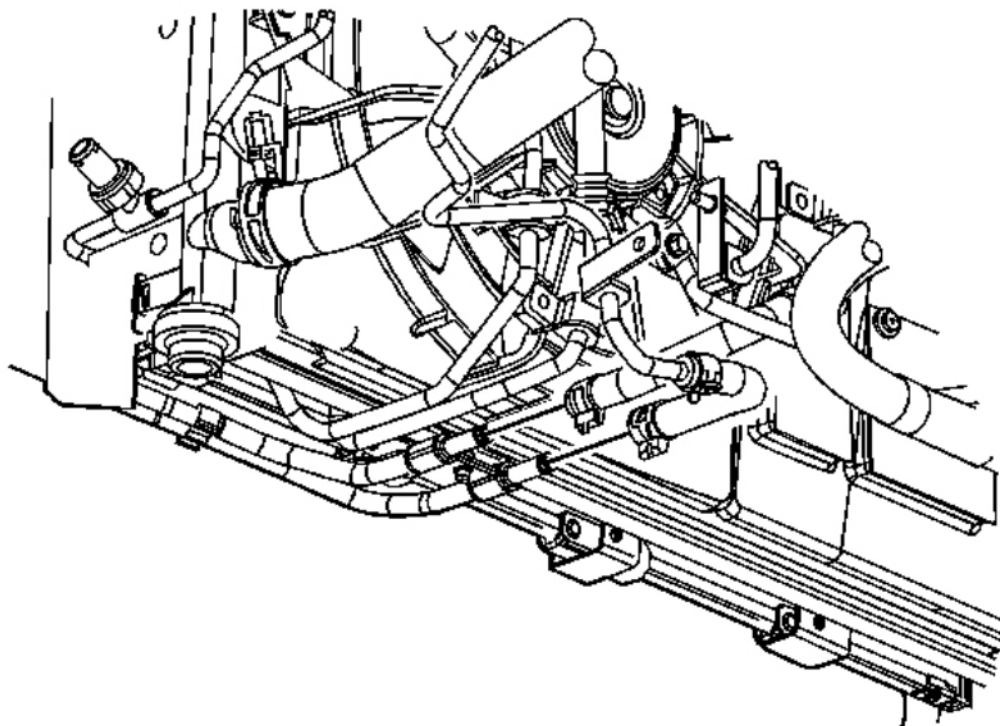


Fig. 56: View Of Power Steering Cooler Pipe/Hose & Power Steering Lines
Courtesy of GENERAL MOTORS CORP.

3. Disconnect the power steering reservoir inlet hose from the power steering cooler.

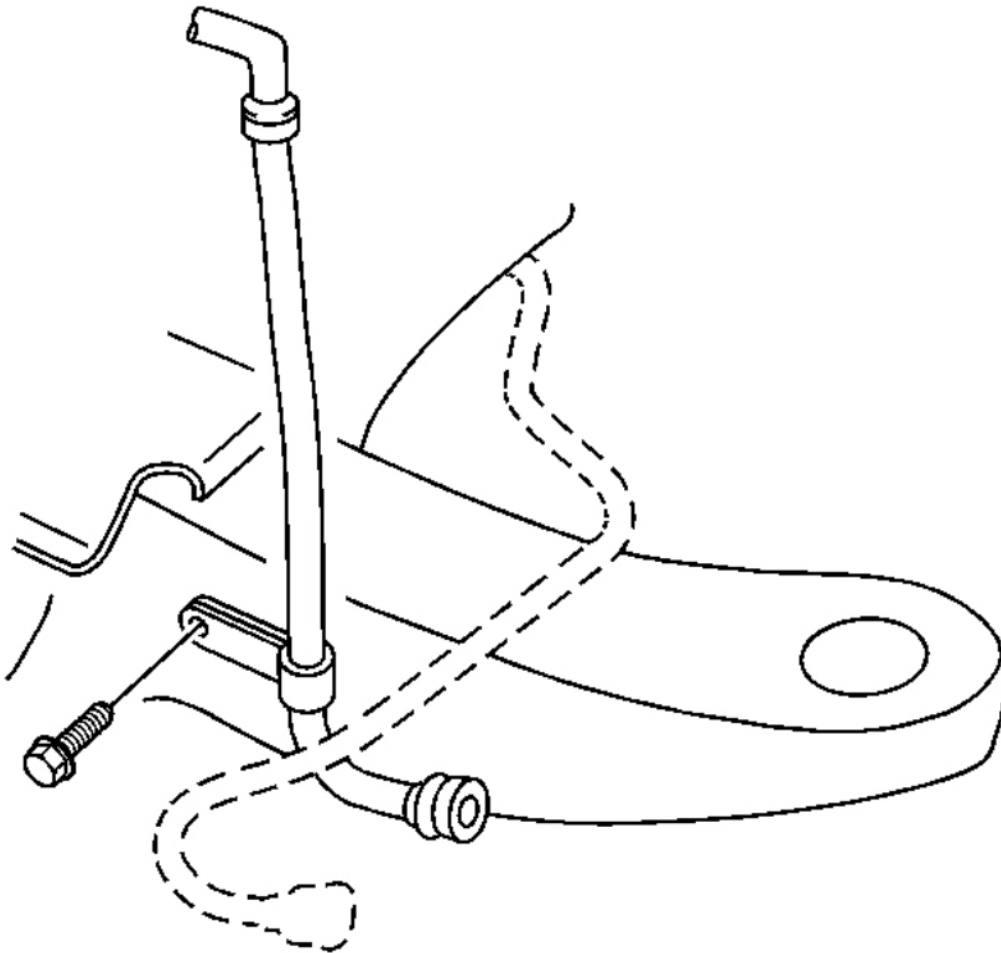


Fig. 57: View Of Power Steering Reservoir Inlet Hose-To-Frame Retaining Bolt - LH2
Courtesy of GENERAL MOTORS CORP.

4. Remove the power steering reservoir inlet hose to frame retaining bolt.
5. Lower the vehicle.

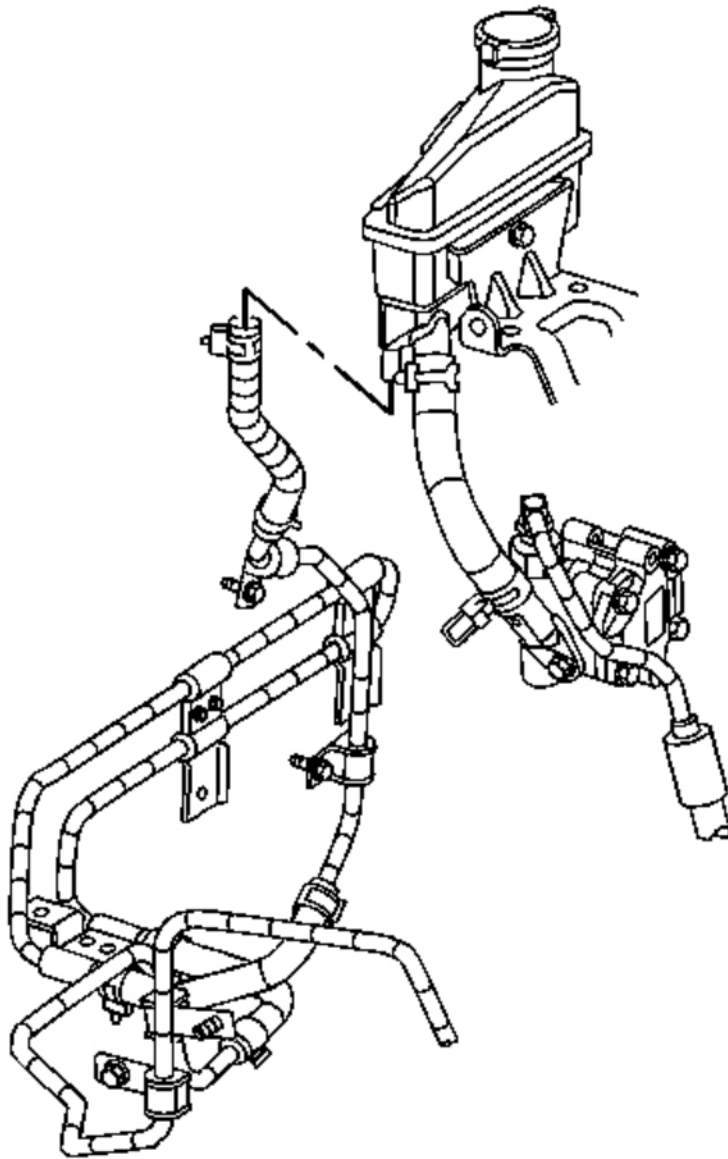


Fig. 58: View Of Power Steering Reservoir Inlet Hose
Courtesy of GENERAL MOTORS CORP.

6. Disconnect the power steering reservoir inlet hose from the power steering reservoir.
7. Remove the power steering cooler pipe/hose from the vehicle.

Installation Procedure

1. Position the power steering reservoir inlet hose to the vehicle.

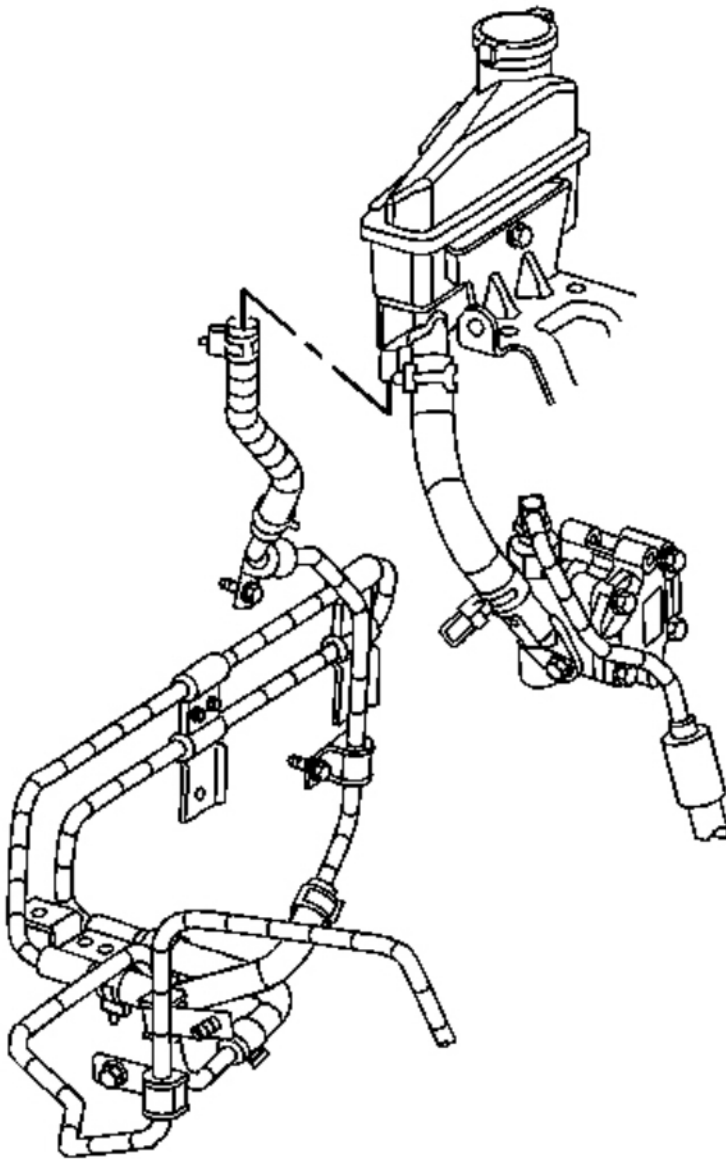


Fig. 59: View Of Power Steering Reservoir Inlet Hose
Courtesy of GENERAL MOTORS CORP.

2. Connect the power steering reservoir inlet hose to the power steering reservoir.

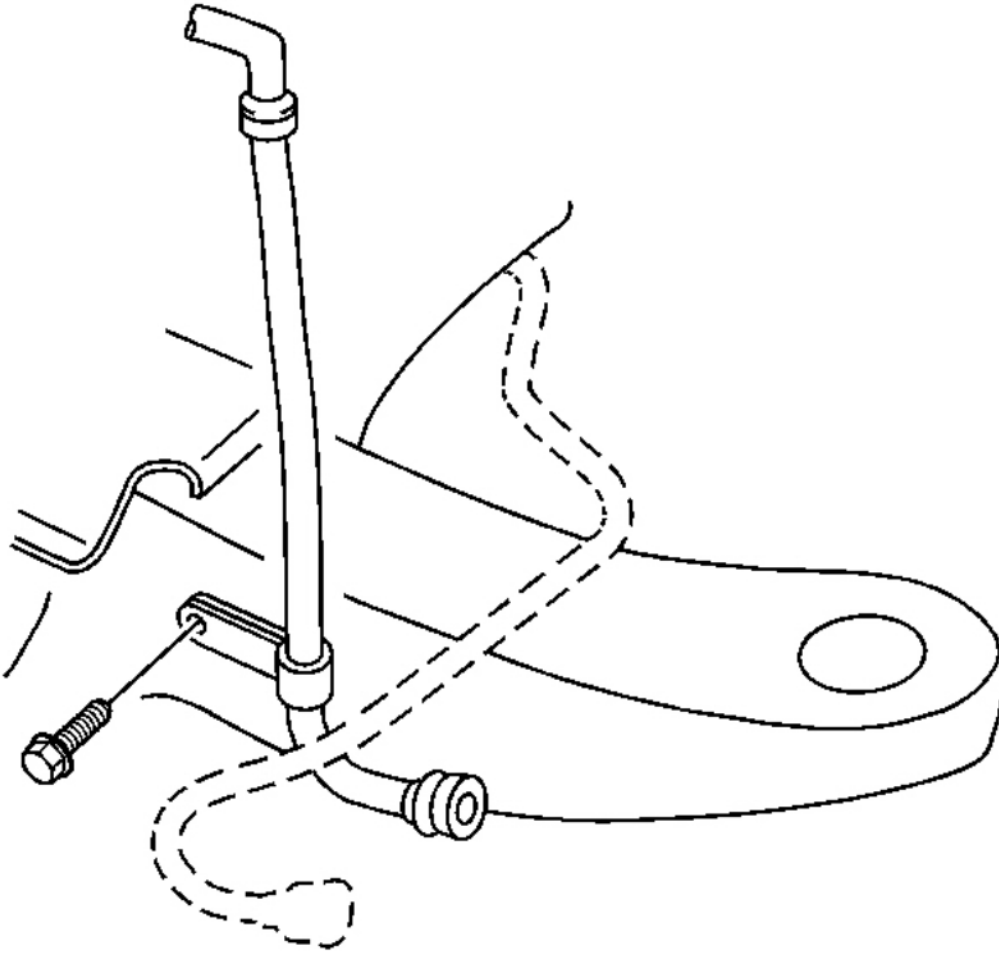


Fig. 60: View Of Power Steering Reservoir Inlet Hose-To-Frame Retaining Bolt - LH2

Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the power steering reservoir inlet hose to frame retaining bolt.

Tighten: Tighten the bolts to 4 N.m (35 lb in).

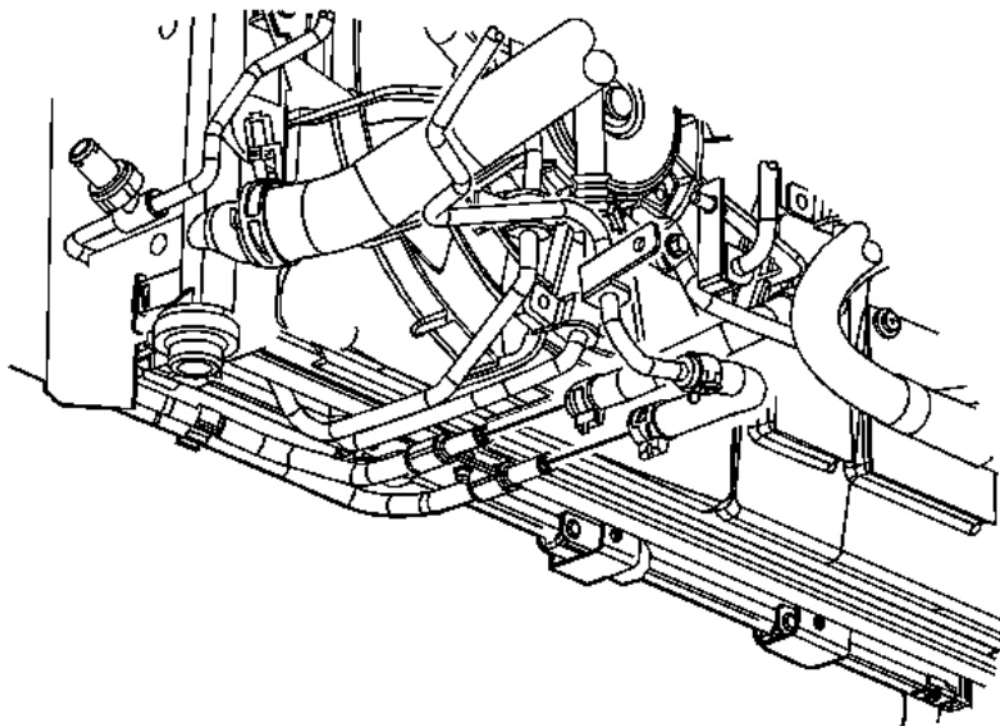


Fig. 61: View Of Power Steering Cooler Pipe/Hose & Power Steering Lines
Courtesy of GENERAL MOTORS CORP.

4. Connect the power steering reservoir inlet hose to the power steering cooler.
5. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
6. Lower the vehicle.
7. Remove the drain pan from under the vehicle.
8. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.

POWER STEERING RESERVOIR INLET PIPE/HOSE REPLACEMENT (LY7)

Removal Procedure

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

2. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.

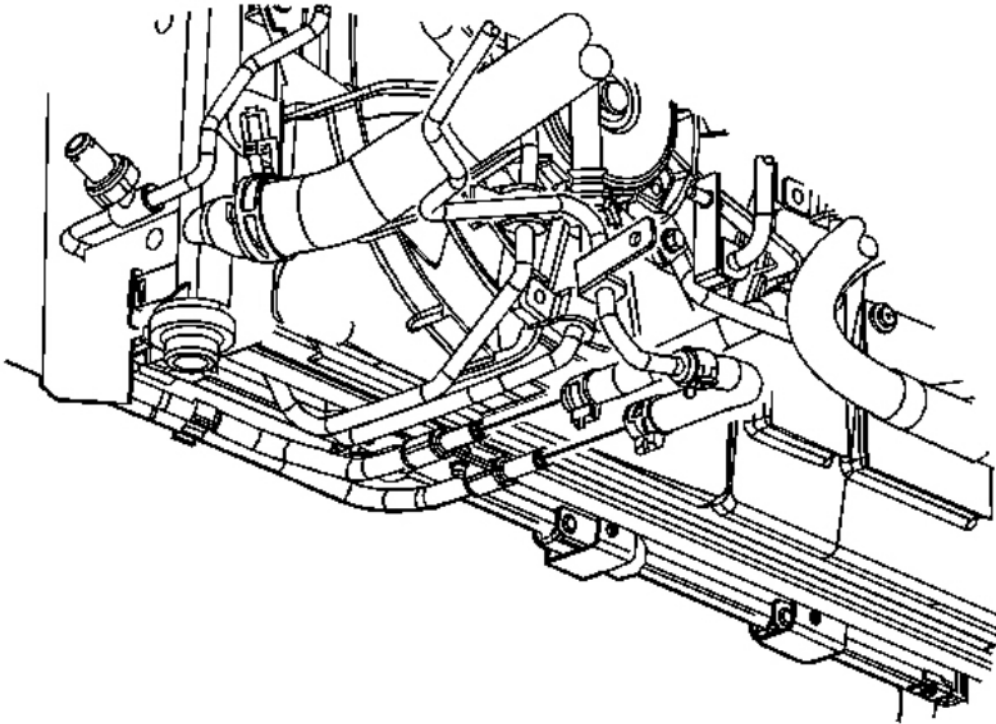


Fig. 62: View Of Power Steering Cooler Pipe/Hose & Power Steering Lines
Courtesy of GENERAL MOTORS CORP.

3. Disconnect the power steering reservoir inlet hose from the power steering cooler.

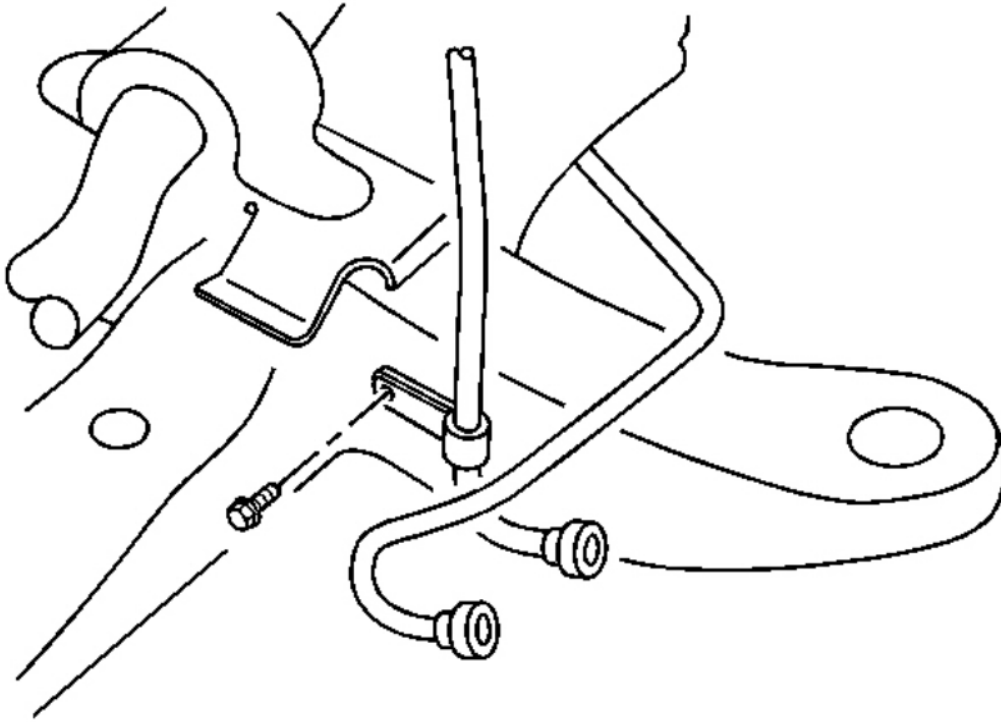


Fig. 63: View Of Power Steering Reservoir Inlet Hose-To-Frame Retaining Bolt - LY7

Courtesy of GENERAL MOTORS CORP.

4. Remove the power steering reservoir inlet hose to frame retaining bolt.
5. Lower the vehicle.

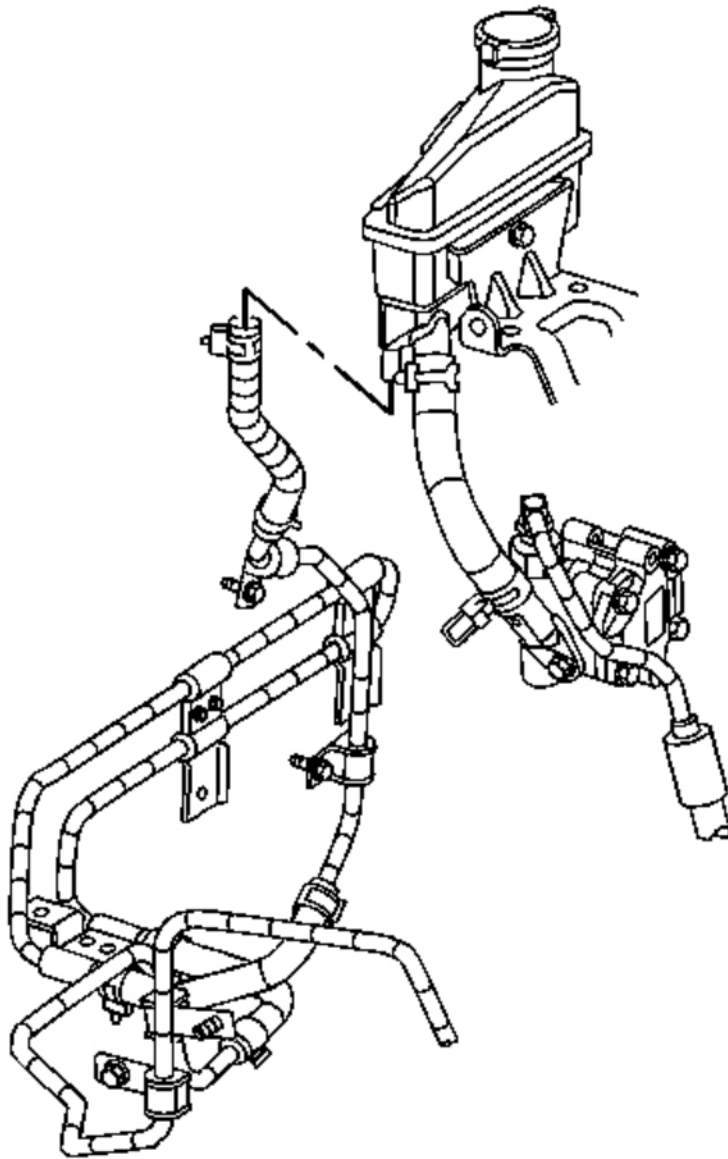


Fig. 64: View Of Power Steering Reservoir Inlet Hose
Courtesy of GENERAL MOTORS CORP.

6. Disconnect the power steering reservoir inlet hose from the power steering reservoir.
7. Remove the power steering cooler pipe/hose from the vehicle.

Installation Procedure

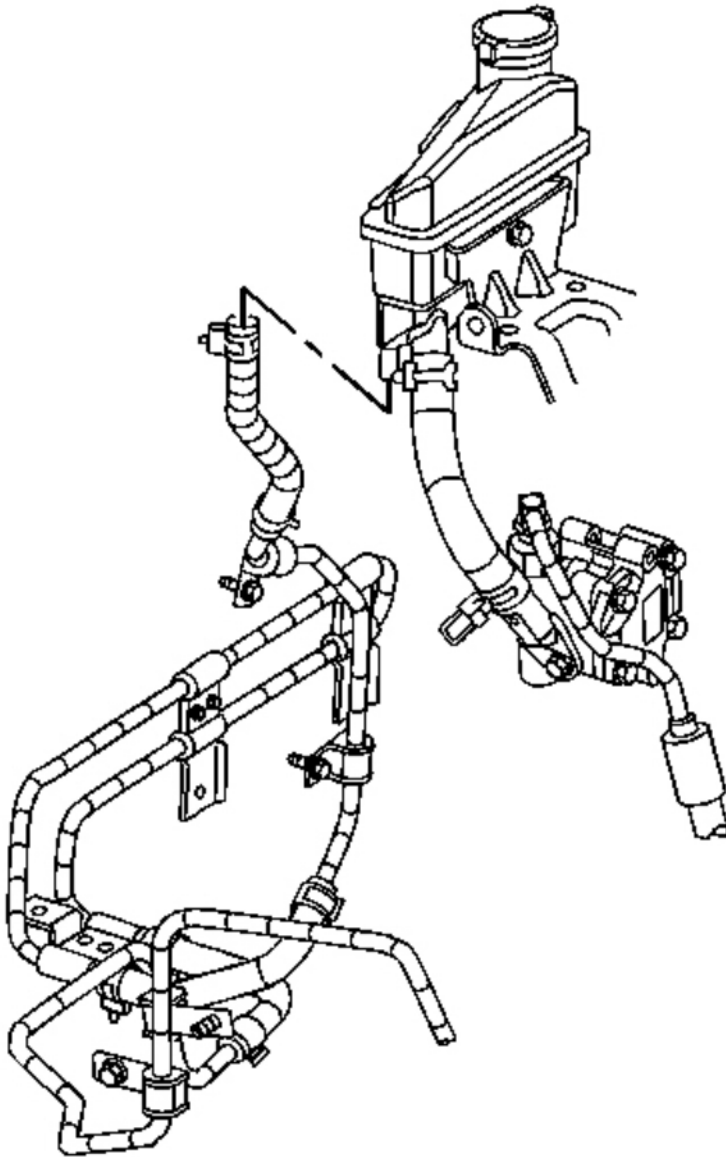


Fig. 65: View Of Power Steering Reservoir Inlet Hose
Courtesy of GENERAL MOTORS CORP.

1. Position the power steering reservoir inlet hose to the vehicle.

2. Connect the power steering reservoir inlet hose to the power steering reservoir.

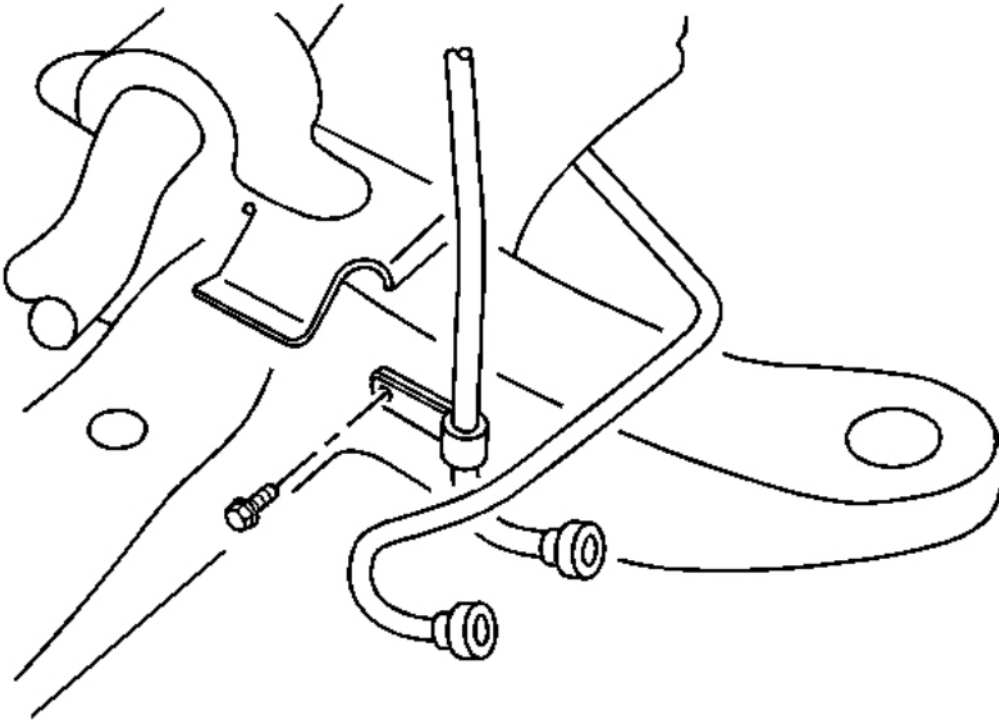


Fig. 66: View Of Power Steering Reservoir Inlet Hose-To-Frame Retaining Bolt - LY7

Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the power steering reservoir inlet hose to frame retaining bolt.

Tighten: Tighten the bolts to 4 N.m (35 lb in).

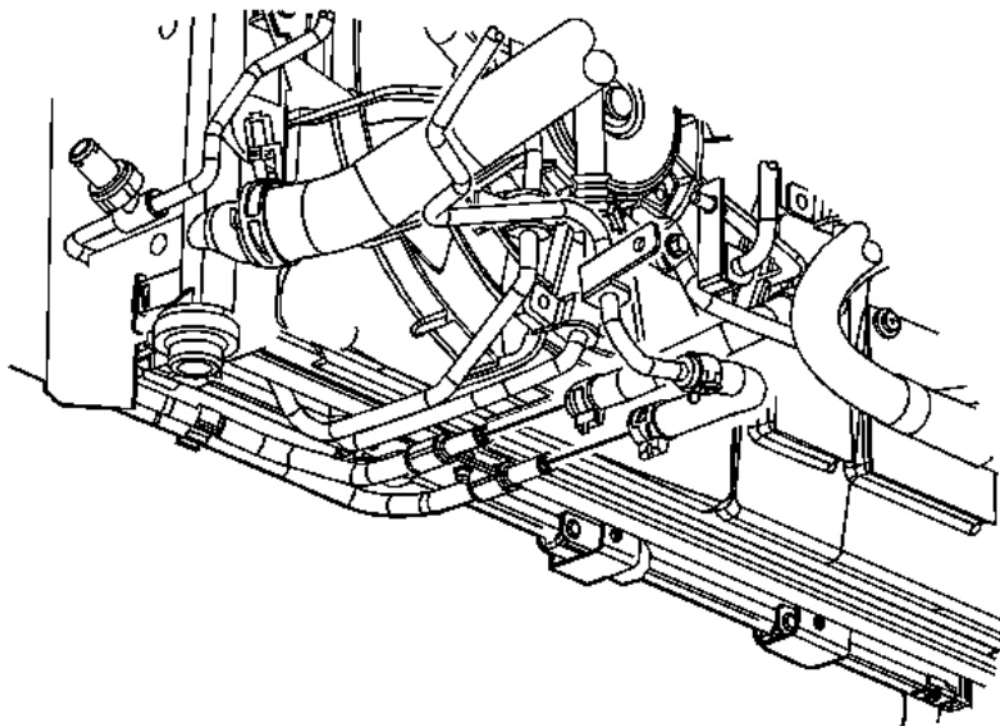


Fig. 67: View Of Power Steering Cooler Pipe/Hose & Power Steering Lines
Courtesy of GENERAL MOTORS CORP.

4. Connect the power steering reservoir inlet hose to the power steering cooler.
5. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
6. Lower the vehicle.
7. Remove the drain pan from under the vehicle.
8. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.

POWER STEERING RESERVOIR OUTLET PIPE/HOSE REPLACEMENT (LH2)

Removal Procedure

1. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.

2. Place a drain pan under the vehicle.
3. Remove the air cleaner intake duct. Refer to **Air Cleaner Outlet Duct Replacement** in Engine Controls - 4.6L (LH2).

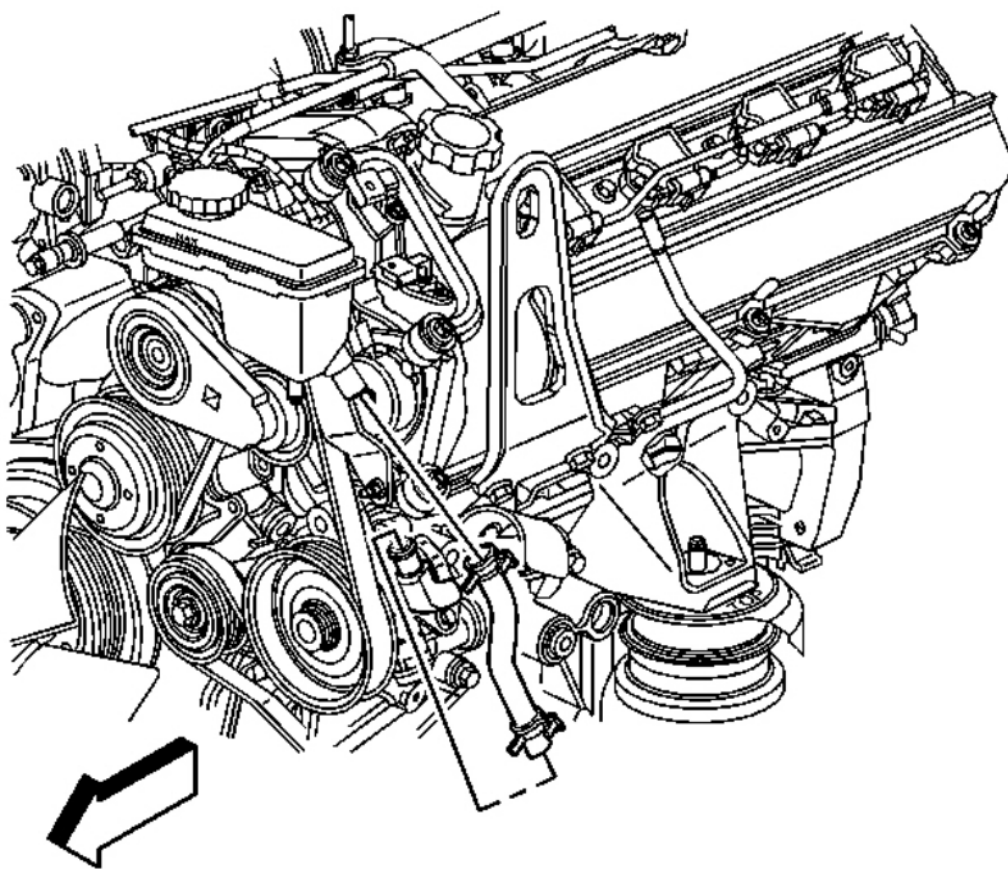


Fig. 68: View Of Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

4. Disconnect the power steering reservoir outlet hose from the power steering pump.
5. Disconnect the power steering reservoir outlet hose from the power steering reservoir.
6. Remove the power steering reservoir outlet hose.

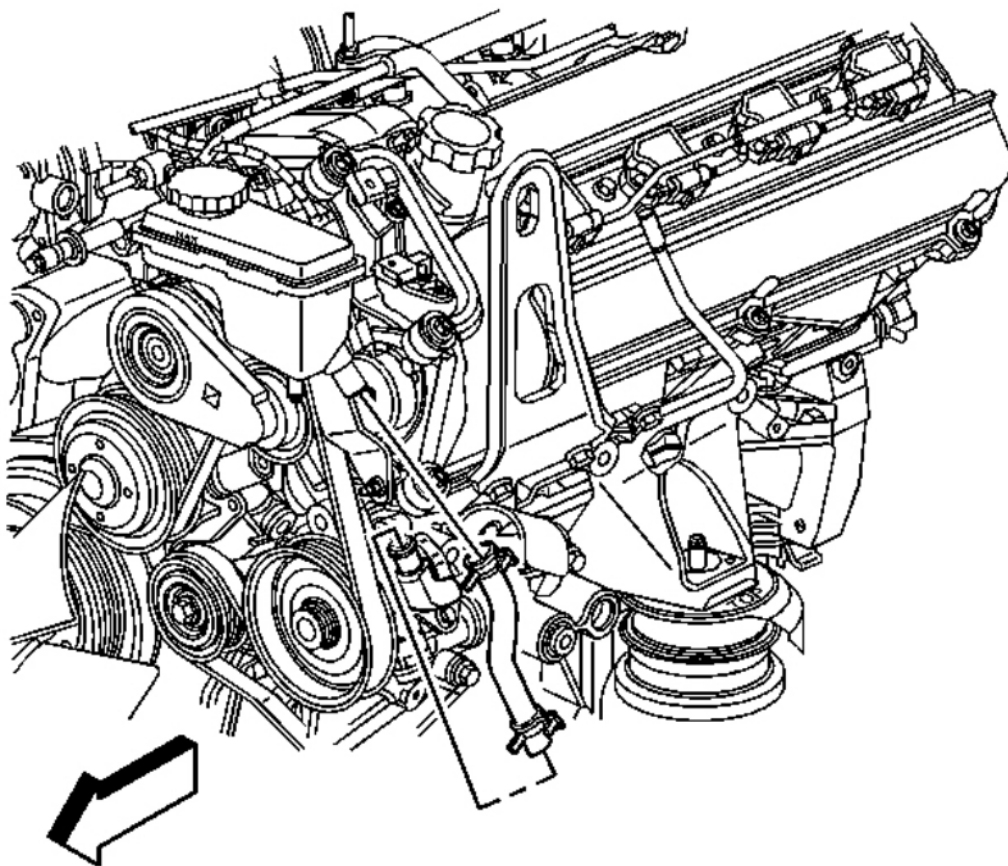


Fig. 69: View Of Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

1. Connect the power steering reservoir outlet hose to the power steering reservoir.
2. Connect the power steering reservoir outlet hose to the power steering reservoir.
3. Install the air cleaner intake duct. Refer to **Air Cleaner Outlet Duct Replacement** in Engine Controls - 4.6L (LH2).
4. Remove the drain pan from under the vehicle.
5. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
6. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.

Removal Procedure

1. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
2. Place a drain pan under the vehicle.
3. Remove the air cleaner intake duct. Refer to **Air Cleaner Intake Duct Replacement** in Engine Controls - 3.6L (LY7).

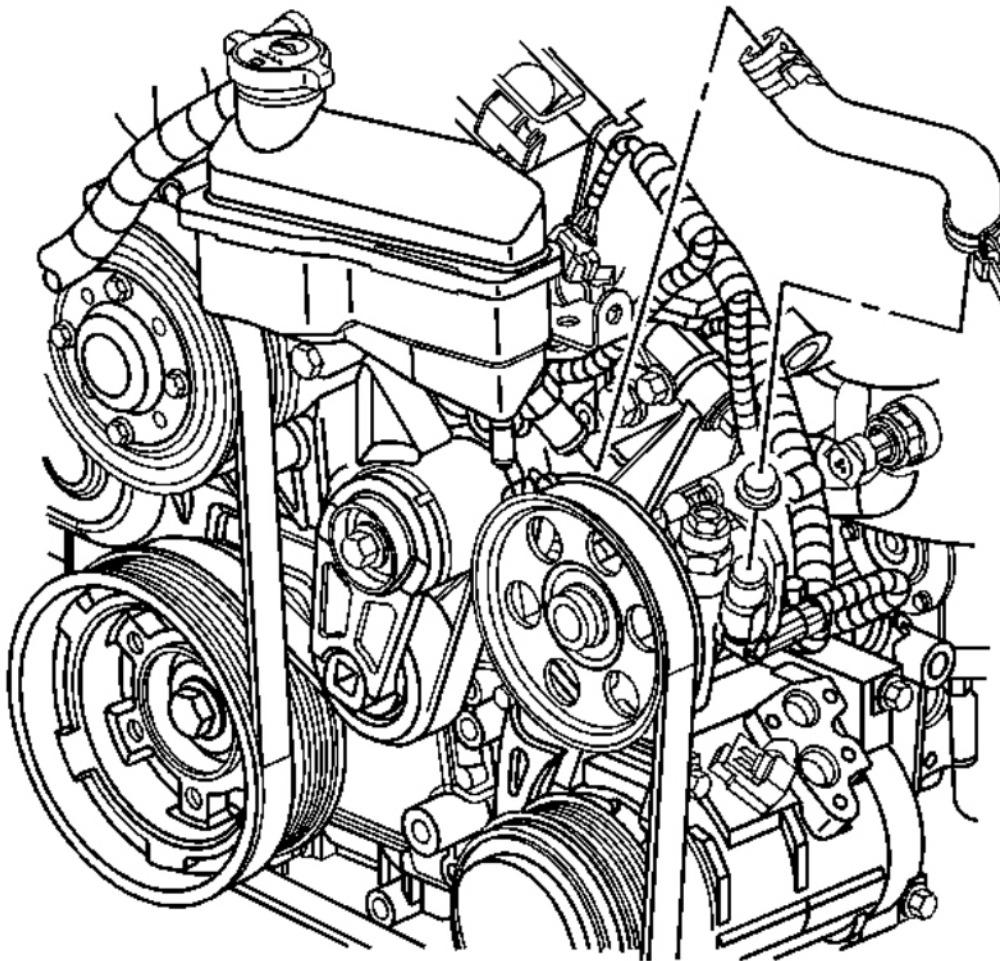


Fig. 70: Identifying Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

4. Disconnect the power steering reservoir outlet hose from the power steering pump.
5. Disconnect the power steering reservoir outlet hose from the power steering reservoir.
6. Remove the power steering reservoir outlet hose.

Installation Procedure

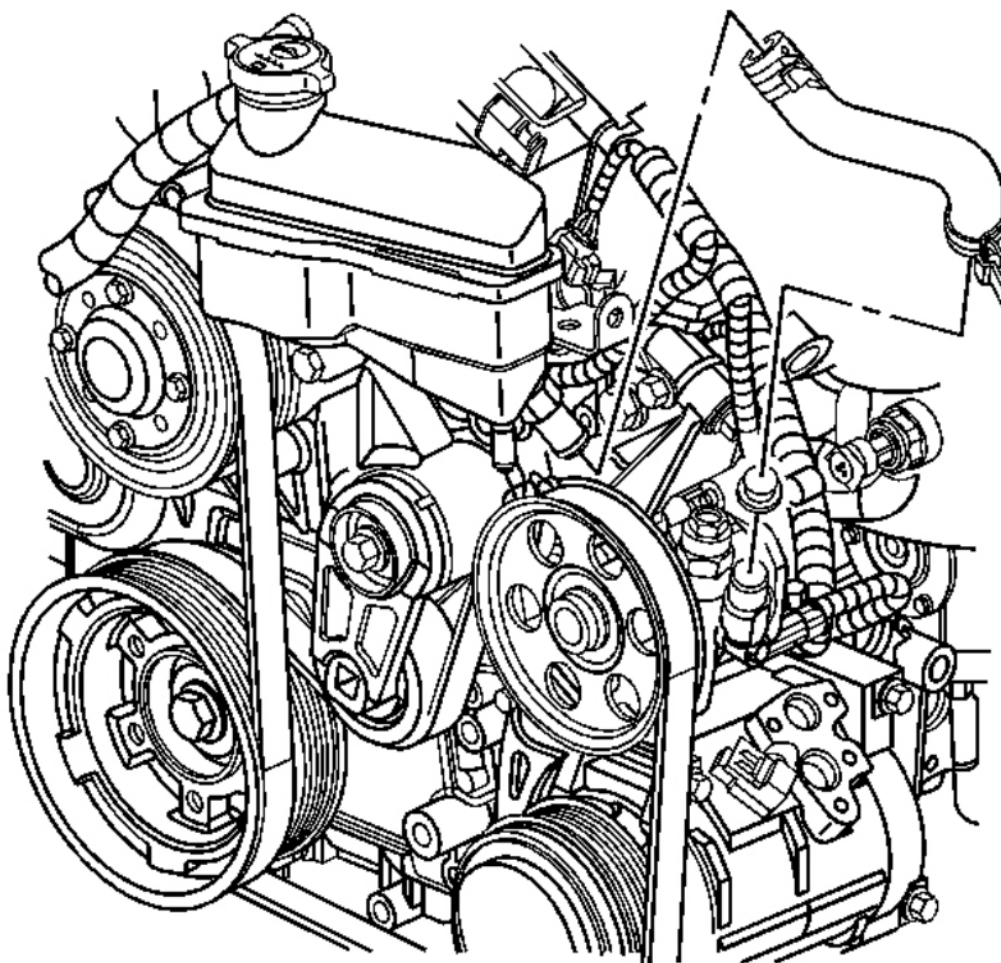


Fig. 71: Identifying Power Steering Reservoir Outlet Hose
Courtesy of GENERAL MOTORS CORP.

1. Connect the power steering reservoir outlet hose to the power steering reservoir.
2. Connect the power steering reservoir outlet hose to the power steering reservoir.

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3. Install the air cleaner intake duct. Refer to **Air Cleaner Intake Duct Replacement** in Engine Controls - 3.6L (LY7).
4. Remove the drain pan from under the vehicle.
5. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
6. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.

POWER STEERING GEAR INLET PIPE/HOSE REPLACEMENT (LH2)

Removal Procedure

1. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
2. Place a drain pan under the vehicle.
3. Remove the air cleaner intake duct. Refer to **Air Cleaner Outlet Duct Replacement** in Engine Controls - 4.6L (LH2).
4. Loosen the air cleaner assembly front half retaining screws.
5. Remove the air cleaner assembly front half.

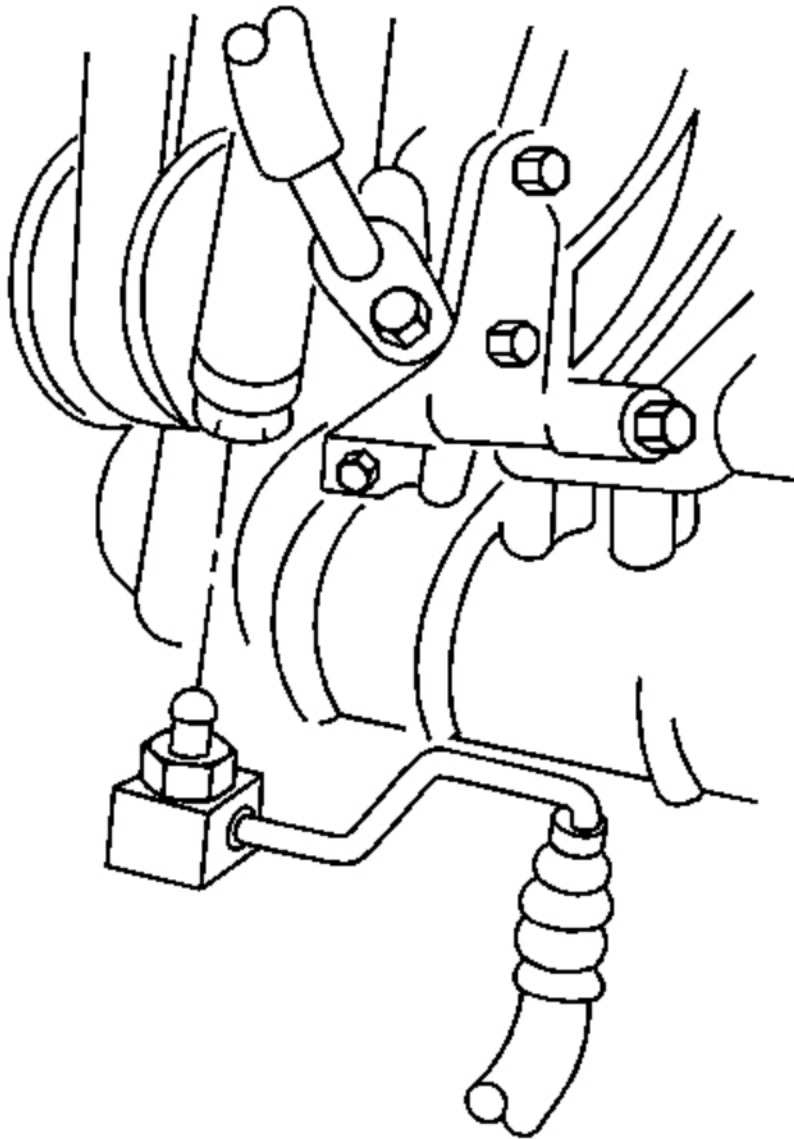


Fig. 72: View Of Power Steering Gear Inlet Hose Fitting
Courtesy of GENERAL MOTORS CORP.

6. Disconnect the power steering gear inlet hose fitting from the power steering pump.
7. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.

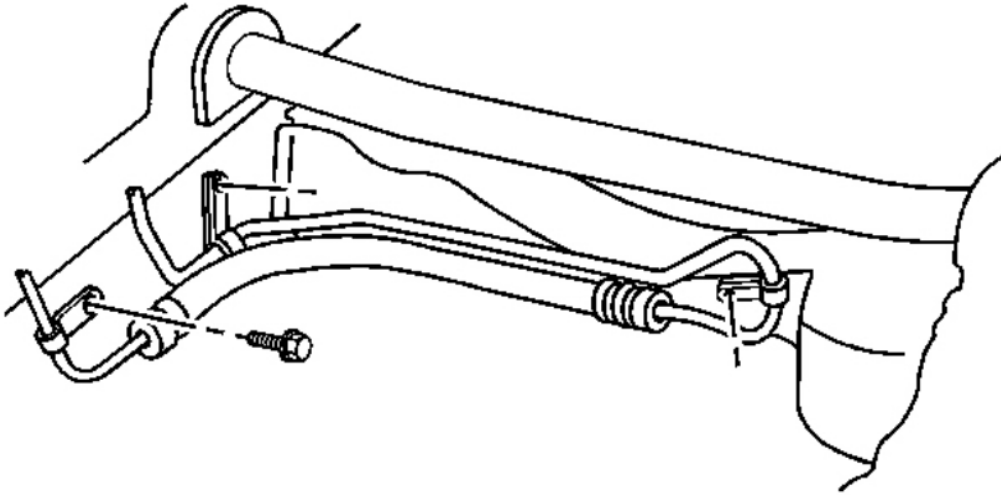


Fig. 73: View Of Power Steering Gear Inlet Hose-To-Frame Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

8. Remove the power steering gear inlet hose to the frame mounting bolts.

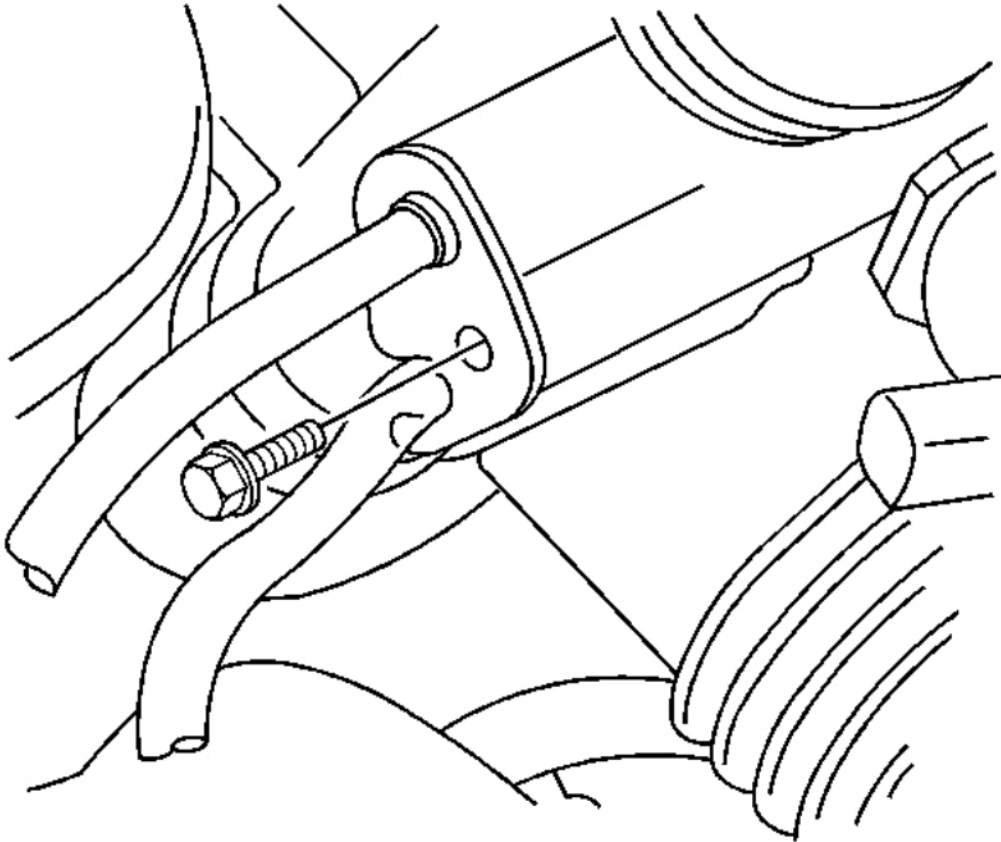


Fig. 74: View Of Power Steering Gear Inlet Hose-To-Power Steering Gear Retaining Bolt

Courtesy of GENERAL MOTORS CORP.

9. Remove the power steering gear inlet hose to power steering gear retaining bolt.

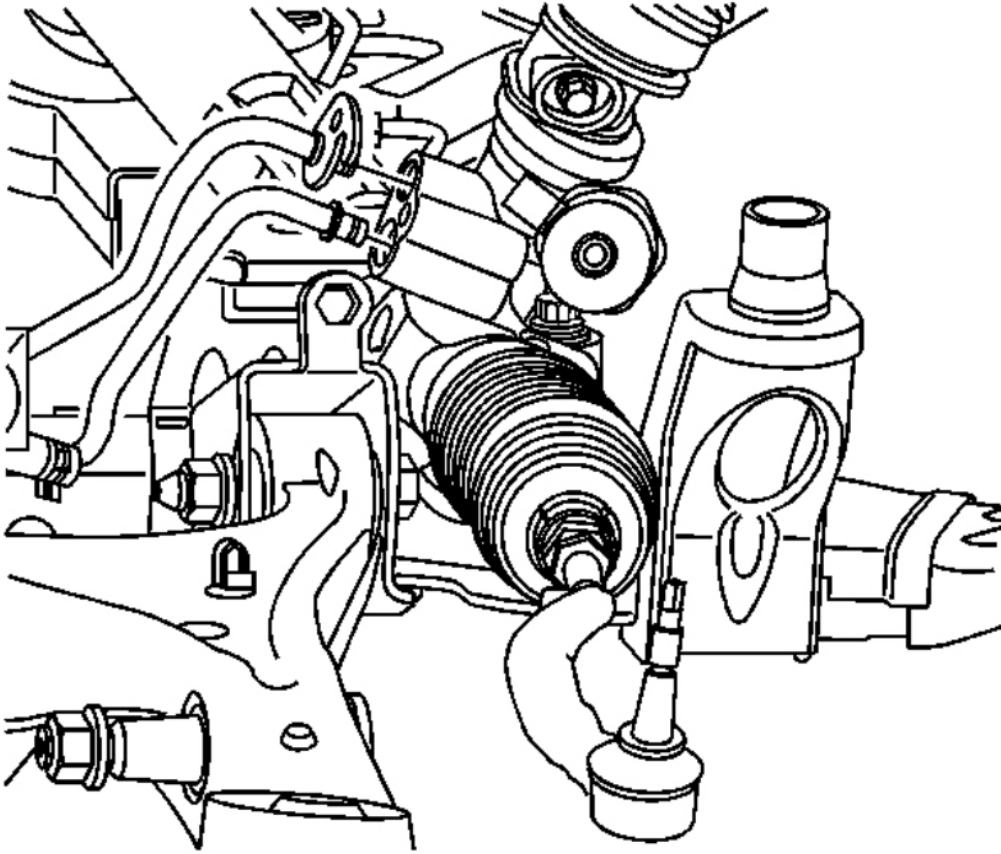


Fig. 75: View Of Power Steering Gear And Hoses
Courtesy of GENERAL MOTORS CORP.

10. Remove the power steering gear inlet hose from the power steering gear.
11. Remove the power steering hose from the vehicle.

Installation Procedure

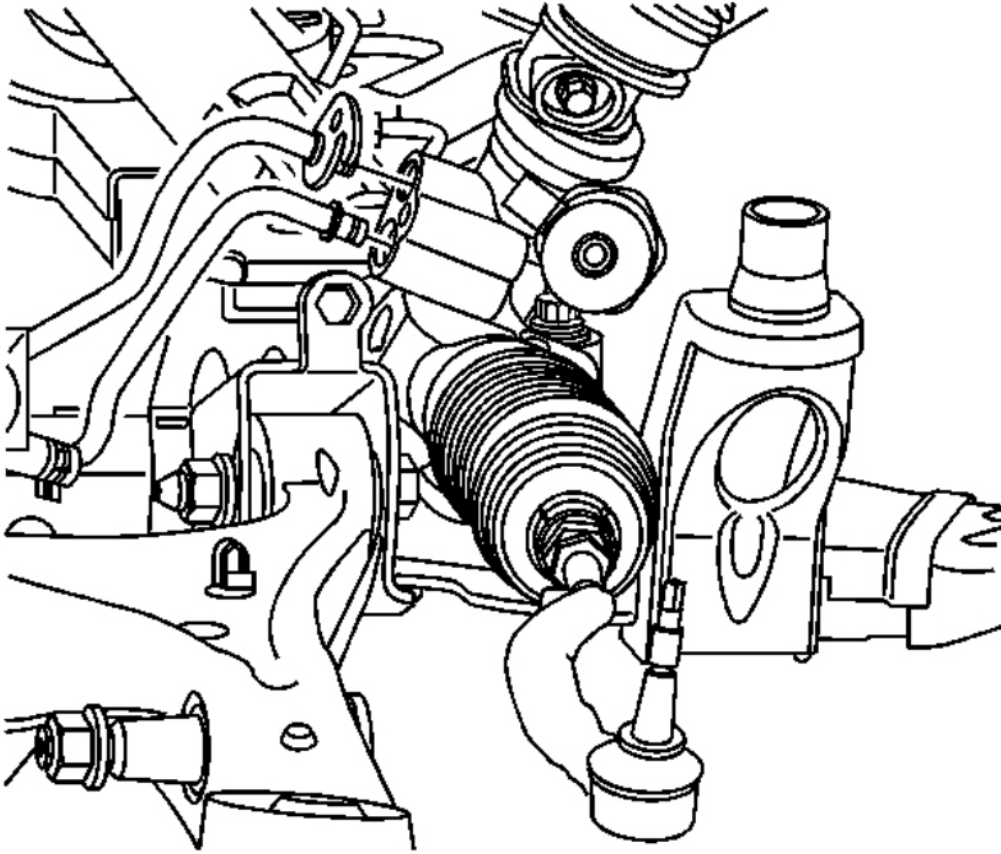


Fig. 76: View Of Power Steering Gear And Hoses
Courtesy of GENERAL MOTORS CORP.

1. Install the power steering hose to the vehicle.

NOTE: Refer to Fastener Notice in Cautions and Notices.

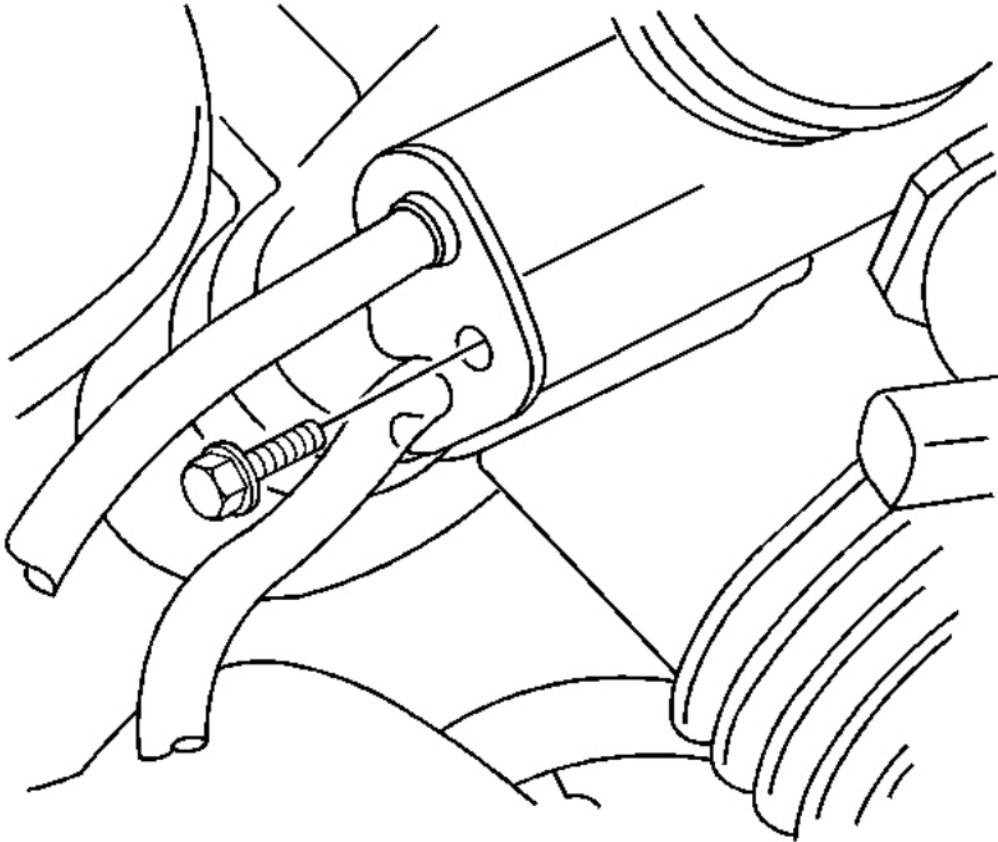


Fig. 77: View Of Power Steering Gear Inlet Hose-To-Power Steering Gear Retaining Bolt

Courtesy of GENERAL MOTORS CORP.

2. Install the power steering gear inlet hose to power steering gear retaining bolt.

Tighten: Tighten the bolt to 23 N.m (17 lb in).

3. Install the power steering gear inlet hose to frame mounting bolts.

Tighten: Tighten the bolts to 4 N.m (35 lb in).

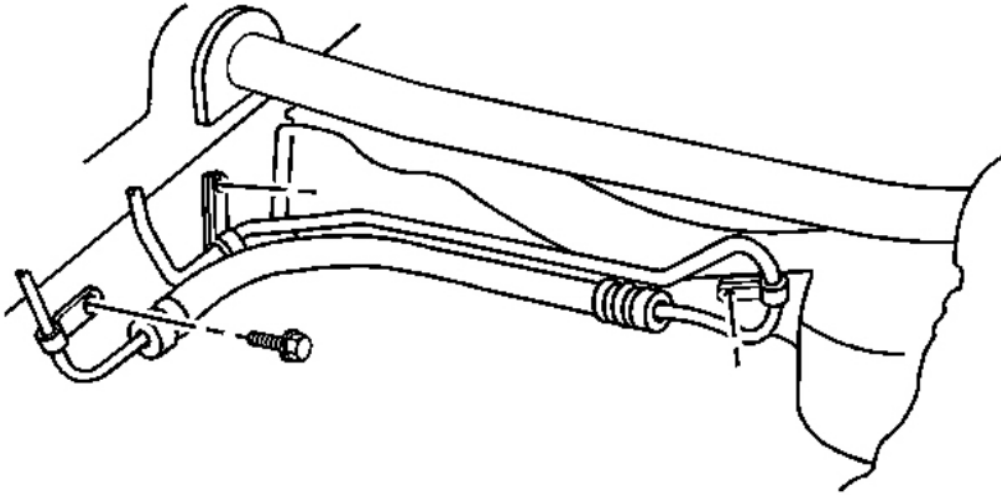


Fig. 78: View Of Power Steering Gear Inlet Hose-To-Frame Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

4. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
5. Lower the vehicle.

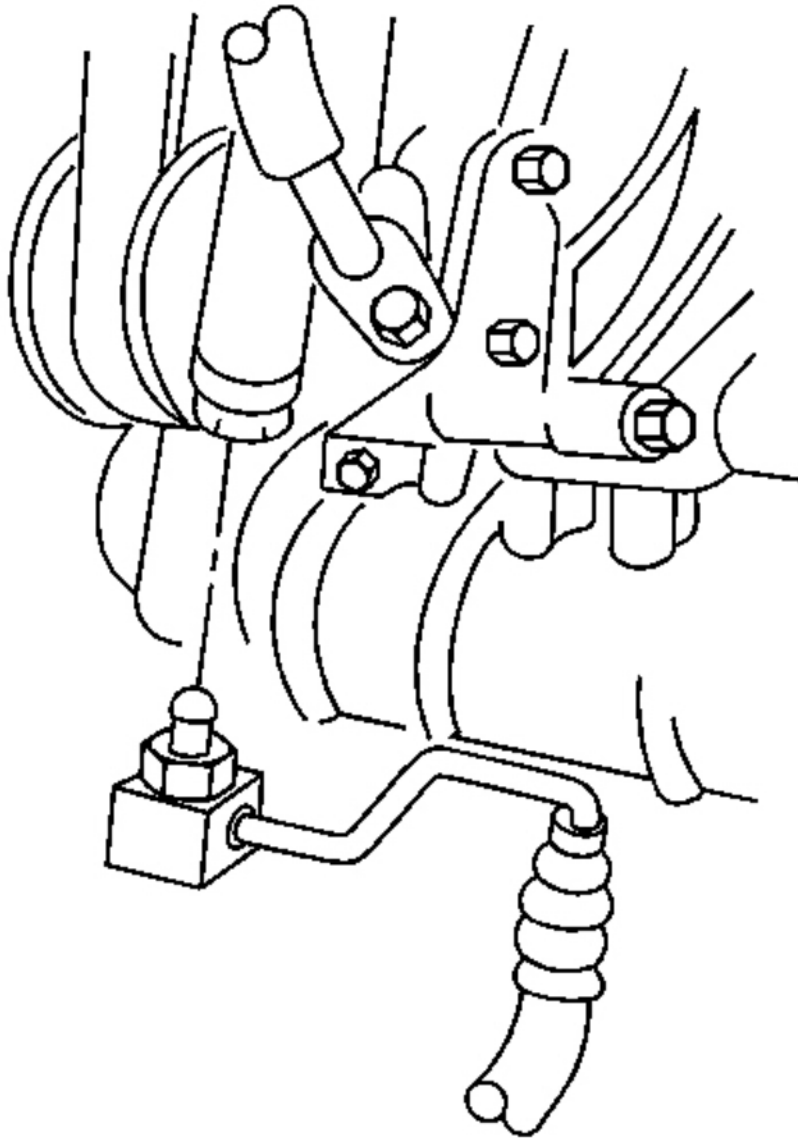


Fig. 79: View Of Power Steering Gear Inlet Hose Fitting
Courtesy of GENERAL MOTORS CORP.

6. Connect the power steering gear inlet hose fitting to the power steering pump.

Tighten: Tighten the fitting to 38 N.m (28 lb in)

7. Install the power steering inlet hose quick connect to fitting.
8. Install the air cleaner assembly front half.

Tighten: Tighten the screws to 8 N.m (71 lb in).

9. Install the air cleaner intake duct. Refer to **Air Cleaner Outlet Duct Replacement** in Engine Controls - 4.6L (LH2).
10. Remove the drain pan from under the vehicle.
11. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.

POWER STEERING GEAR INLET PIPE/HOSE REPLACEMENT (LY7)

Removal Procedure

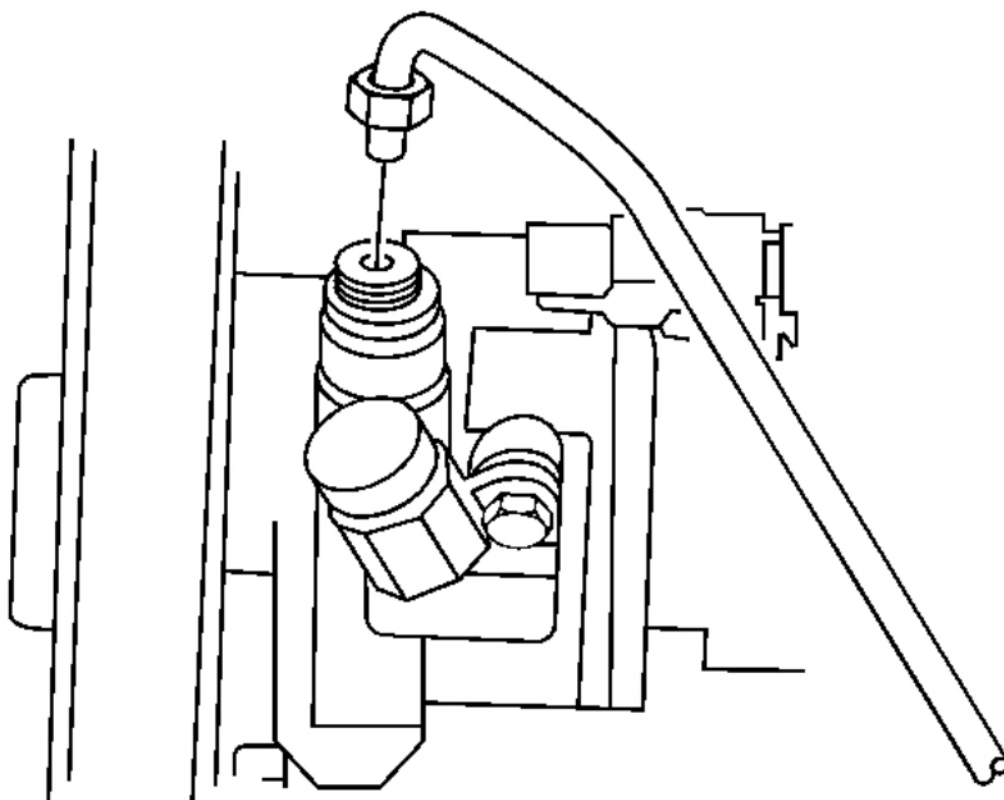


Fig. 80: View Of Power Steering Gear Inlet Hose & Power Steering Pump

Courtesy of GENERAL MOTORS CORP.

1. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
2. Place a drain pan under the vehicle.
3. Remove the air cleaner intake duct. Refer to **Air Cleaner Intake Duct Replacement** in Engine Controls - 3.6L (LY7).
4. Loosen the air cleaner assembly front half retaining screws.
5. Remove the air cleaner assembly front half.
6. Remove the power steering gear inlet hose fitting from the power steering pump.
7. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.

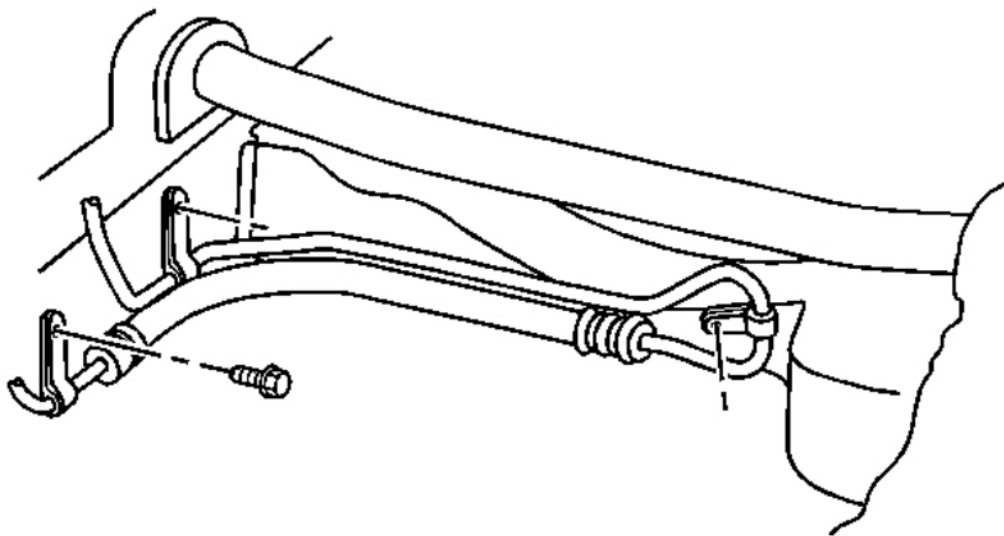


Fig. 81: Locating Power Steering Gear Inlet Hose-To-Frame Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

8. Remove the power steering gear inlet hose to the frame mounting bolts.

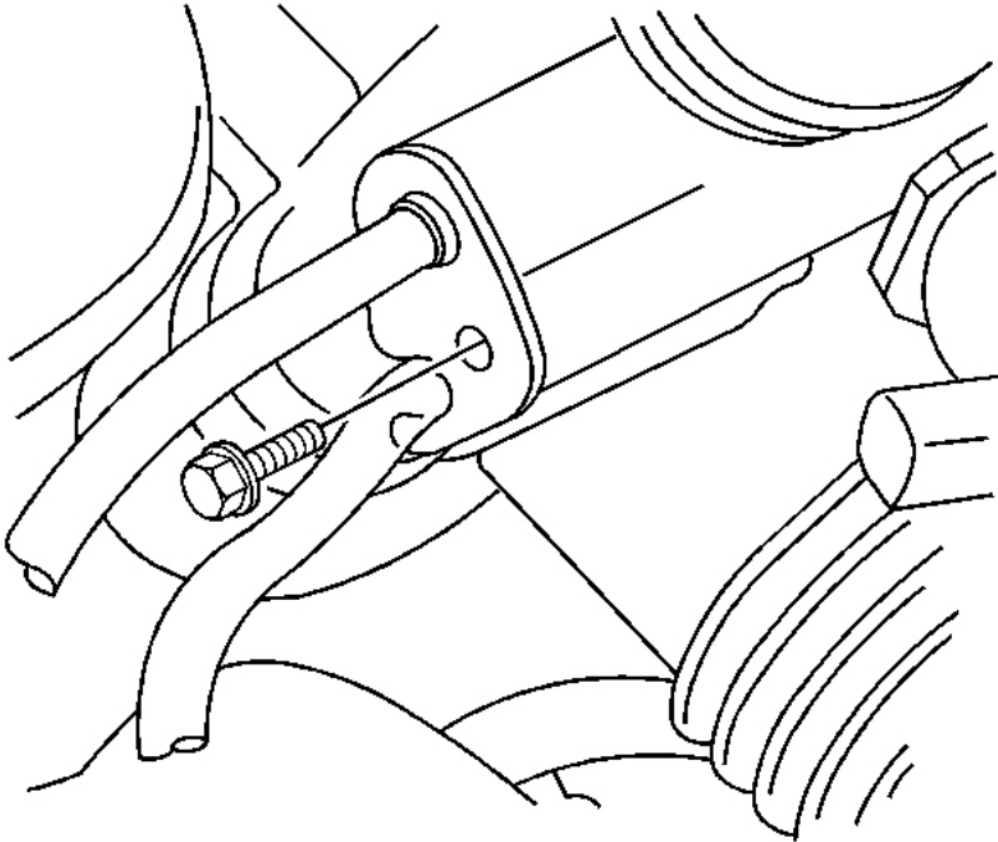


Fig. 82: View Of Power Steering Gear Inlet Hose-To-Power Steering Gear Retaining Bolt

Courtesy of GENERAL MOTORS CORP.

9. Remove the power steering gear inlet hose to power steering gear retaining bolt.

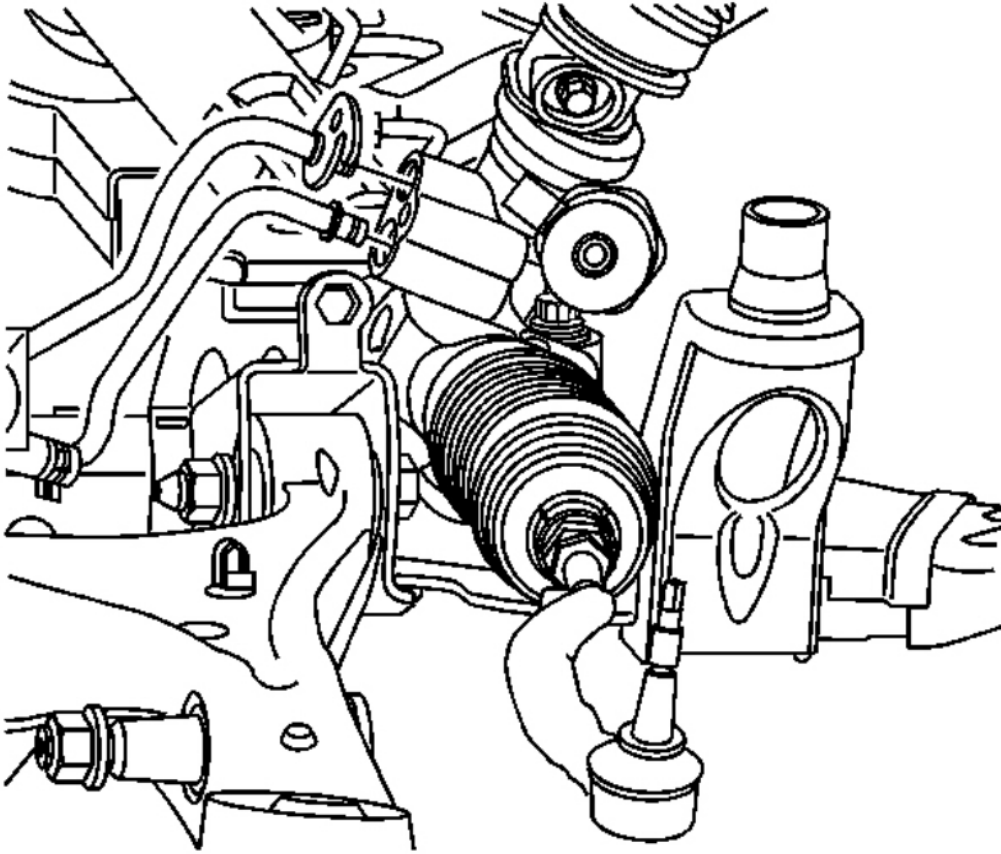


Fig. 83: View Of Power Steering Gear And Hoses
Courtesy of GENERAL MOTORS CORP.

10. Remove the power steering gear inlet hose from the power steering gear.
11. Remove the power steering hose from the vehicle.

Installation Procedure

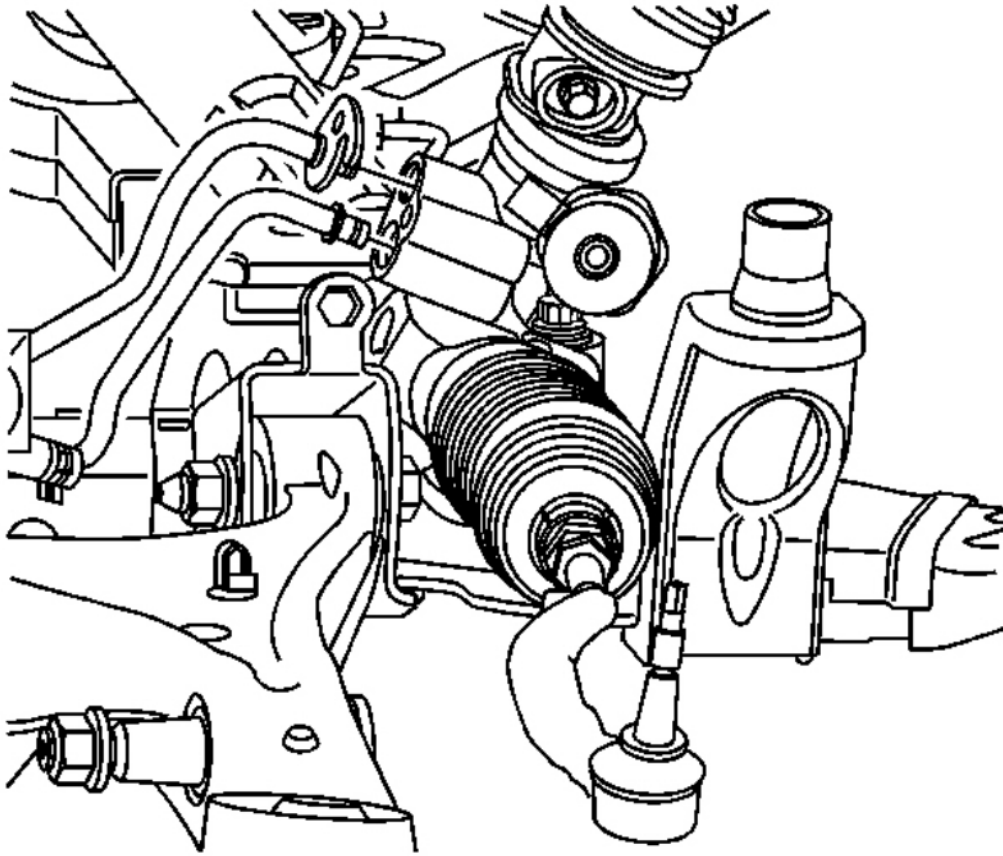


Fig. 84: View Of Power Steering Gear And Hoses
Courtesy of GENERAL MOTORS CORP.

1. Install the power steering hose to the vehicle.
2. Install the power steering gear inlet hose to the power steering gear.

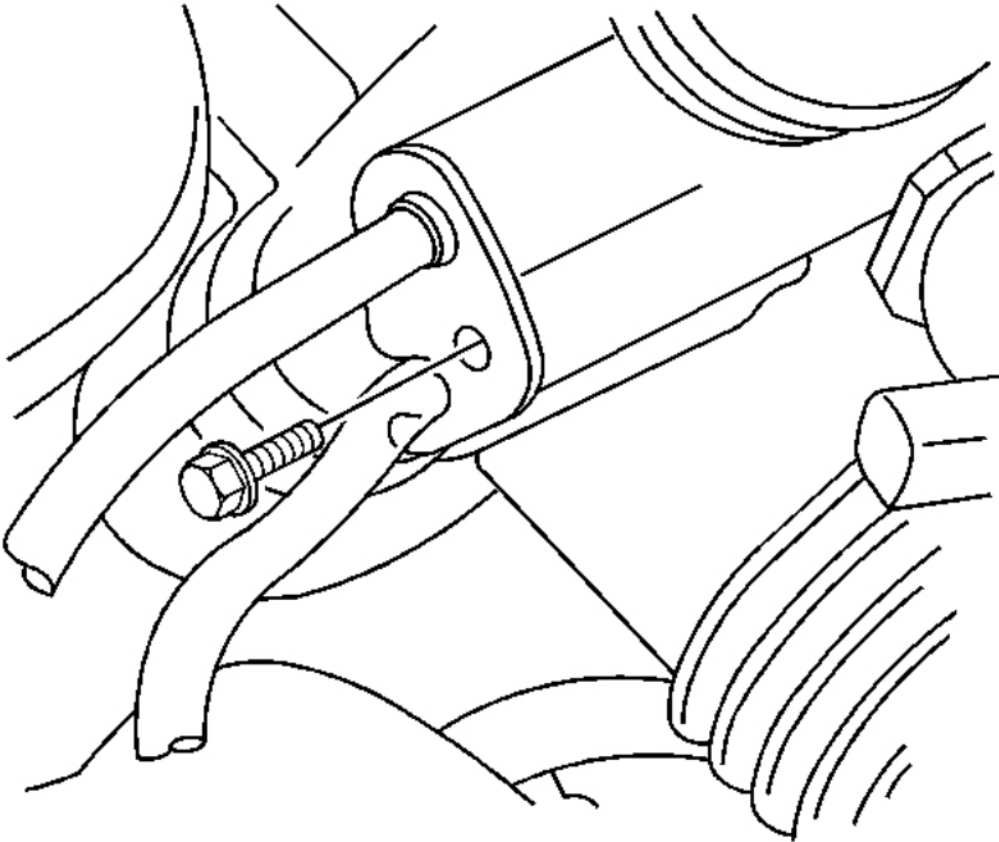


Fig. 85: View Of Power Steering Gear Inlet Hose-To-Power Steering Gear Retaining Bolt

Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the power steering gear inlet hose to power steering gear retaining bolt.

Tighten: Tighten the bolt to 23 N.m (17 lb in).

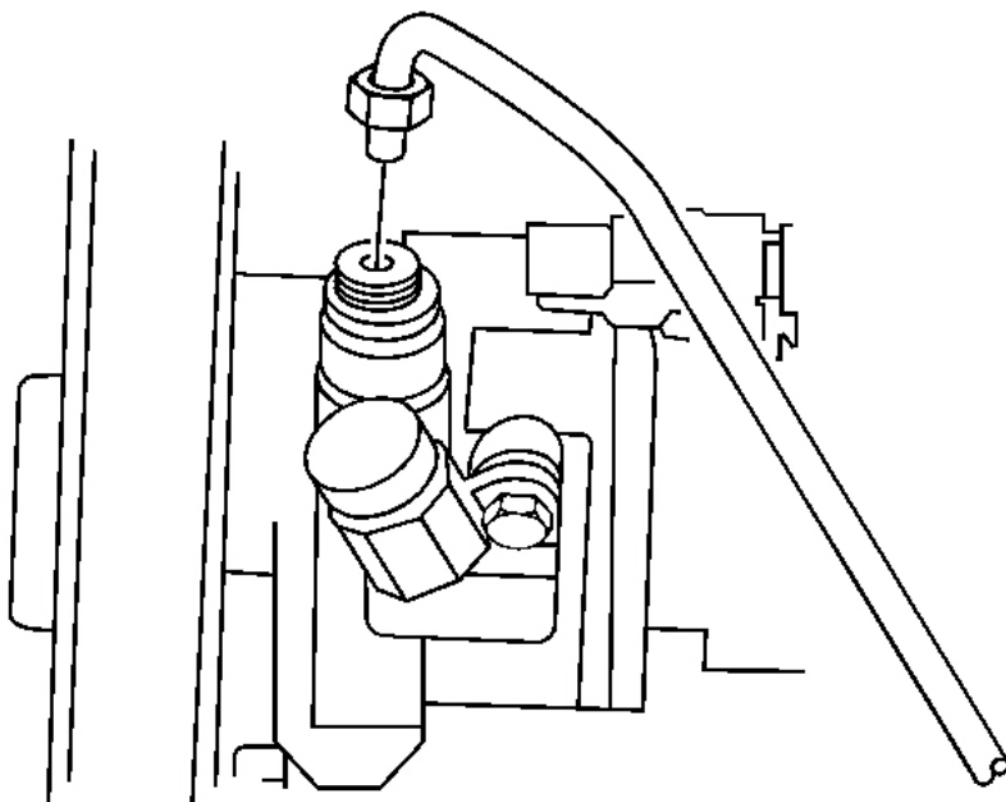


Fig. 86: View Of Power Steering Gear Inlet Hose & Power Steering Pump
Courtesy of GENERAL MOTORS CORP.

4. Install the power steering gear inlet hose to frame mounting bolts.

Tighten: Tighten the bolts to 4 N.m (35 lb in).

5. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
6. Lower the vehicle.
7. Install the power steering gear inlet hose fitting to the power steering pump.

Tighten: Tighten the fitting to 38 N.m (28 lb in).

8. Install the power steering gear inlet hose quick connect to the fitting.

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9. Install the air cleaner assembly front half.

Tighten: Tighten the screws to 8 N.m (71 lb in).

10. Install the air cleaner intake duct. Refer to **Air Cleaner Intake Duct Replacement** in Engine Controls - 3.6L (LY7).
11. Remove the drain pan from under the vehicle.
12. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.

POWER STEERING GEAR OUTLET PIPE/HOSE REPLACEMENT

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
2. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
3. Place a drain pan under the vehicle.

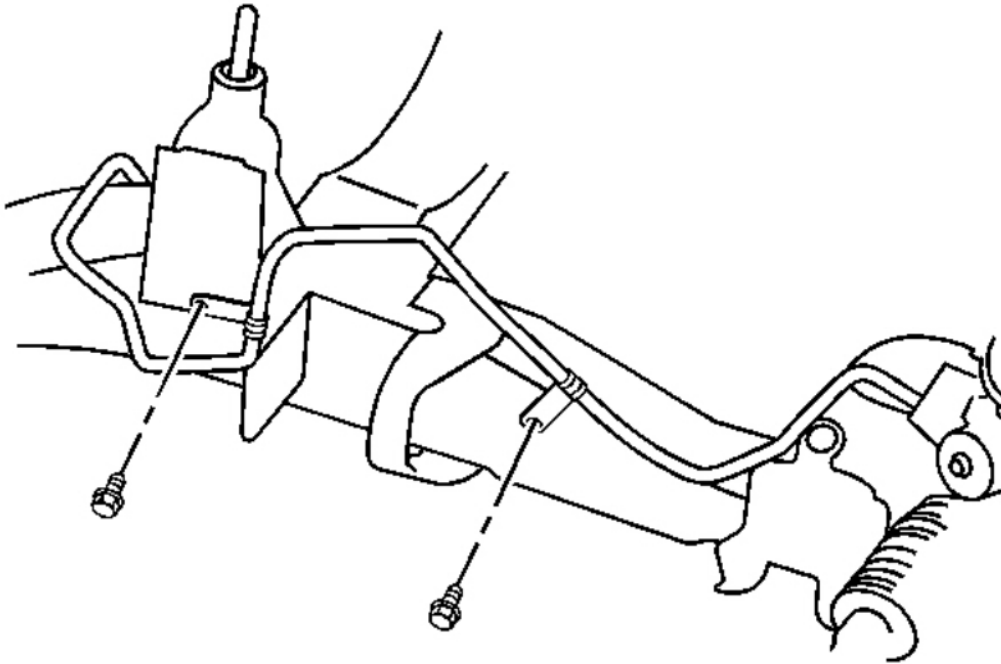


Fig. 87: View Of Power Steering Gear Outlet Hose-To-Frame Retaining Bolts
Courtesy of GENERAL MOTORS CORP.

4. Remove the power steering gear outlet hose to frame retaining bolt.

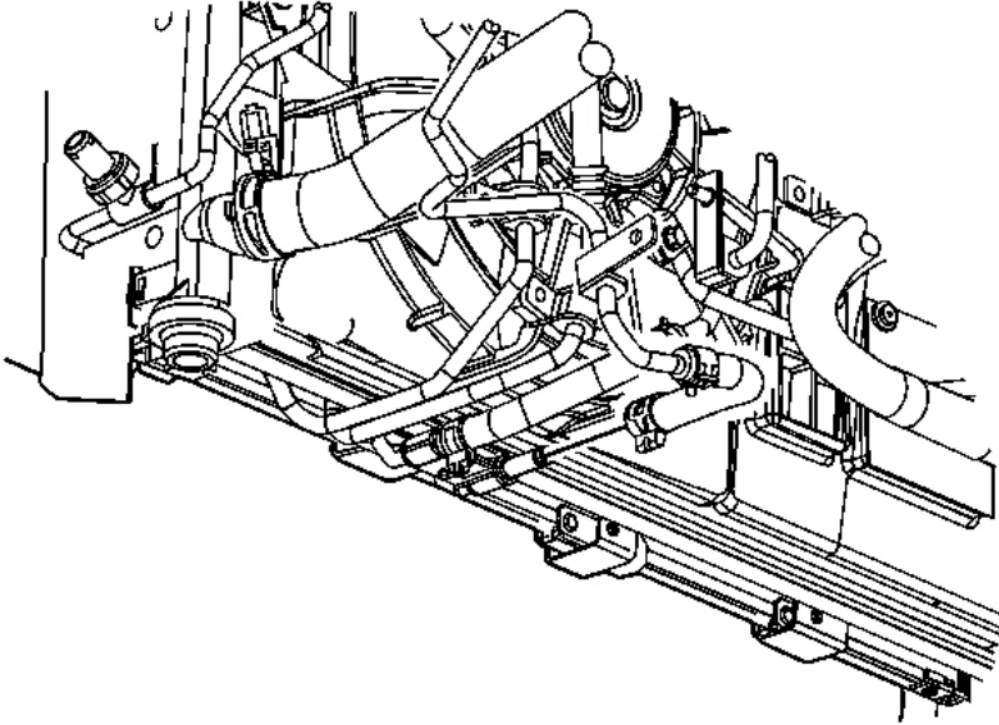


Fig. 88: View Of Power Steering Gear Outlet Hose & Power Steering Cooler
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the power steering gear outlet hose from the power steering cooler.

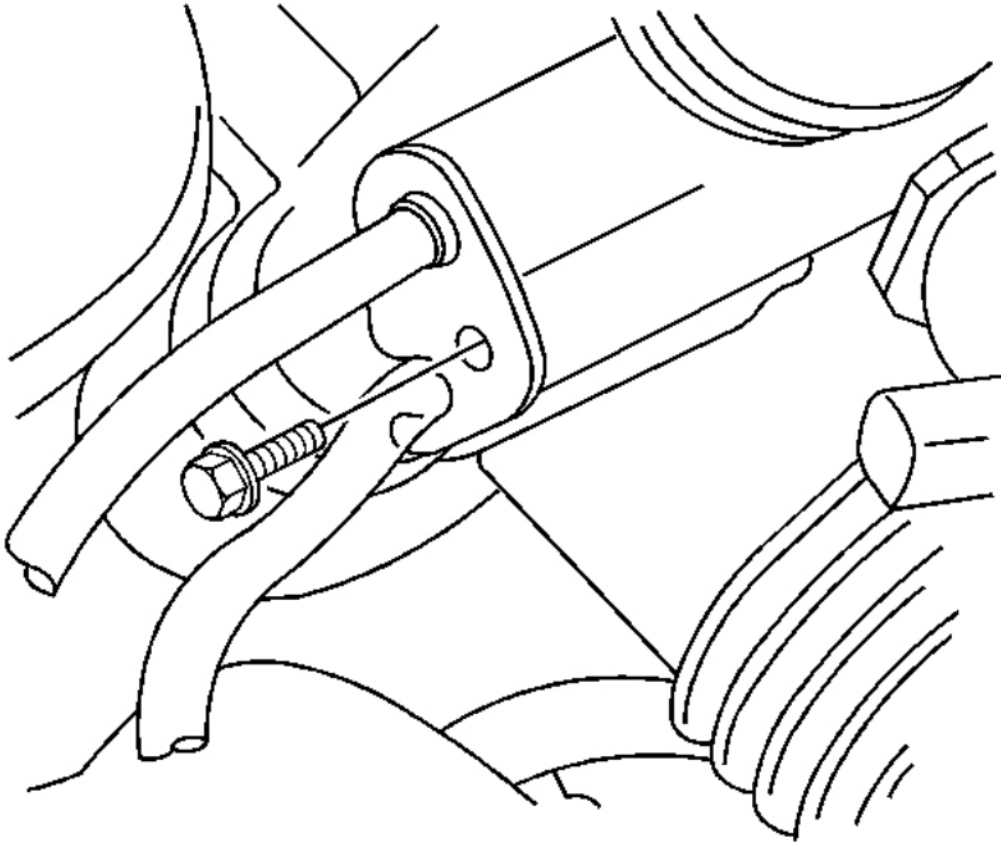


Fig. 89: View Of Power Steering Gear Inlet Hose-To-Power Steering Gear Retaining Bolt

Courtesy of GENERAL MOTORS CORP.

6. Remove the power steering lines to power steering gear retaining bolt.

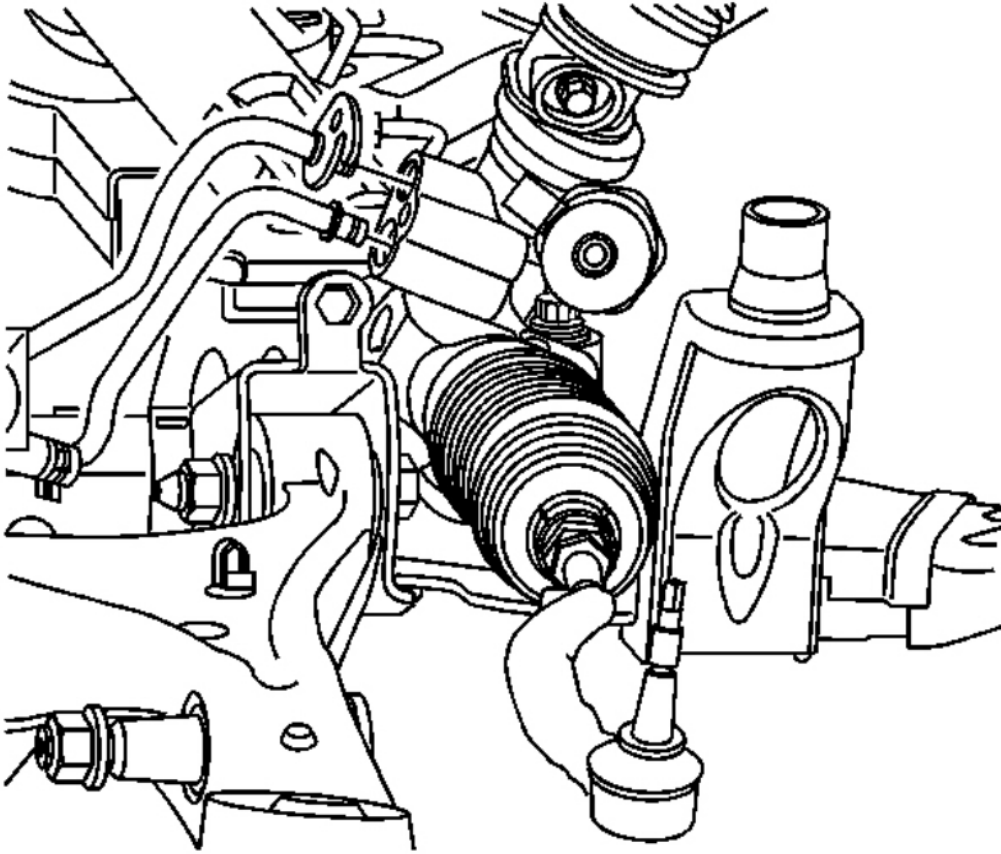


Fig. 90: View Of Power Steering Gear And Hoses
Courtesy of GENERAL MOTORS CORP.

7. Disconnect the power steering gear outlet hose from the power steering gear.
8. Remove the power steering return line from the vehicle.

Installation Procedure

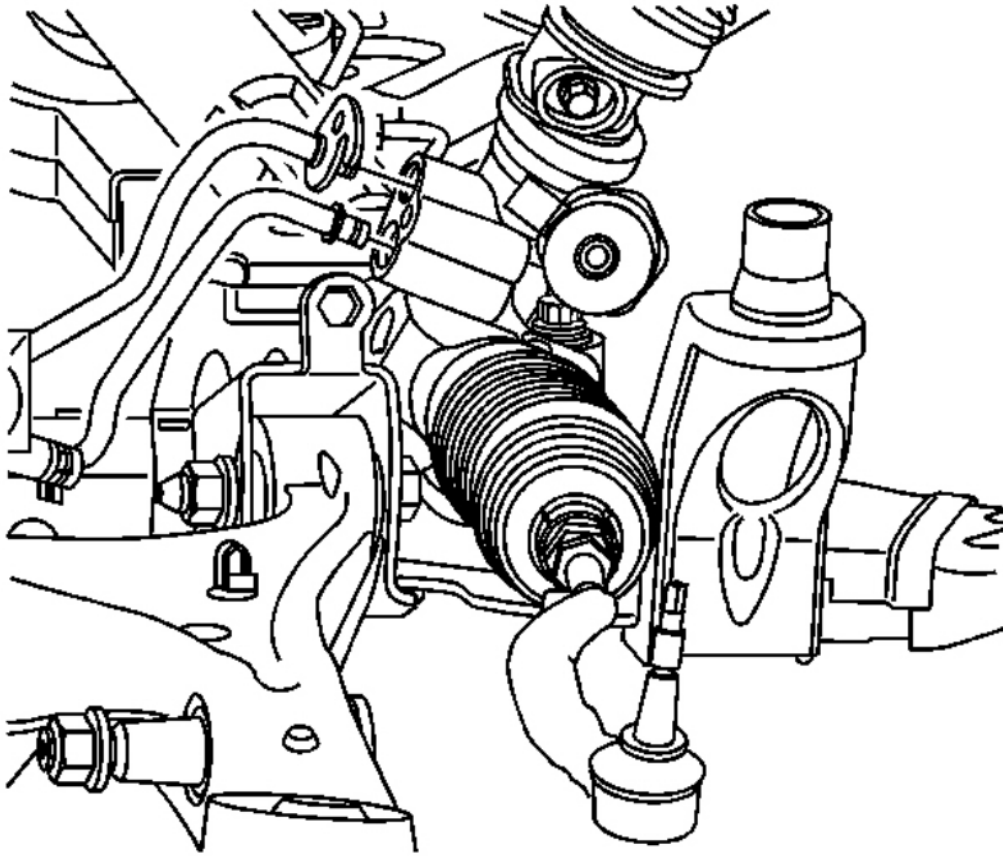


Fig. 91: View Of Power Steering Gear And Hoses
Courtesy of GENERAL MOTORS CORP.

1. Install the power steering gear outlet hose to the vehicle.
2. Connect the power steering gear outlet hose to the power steering gear.

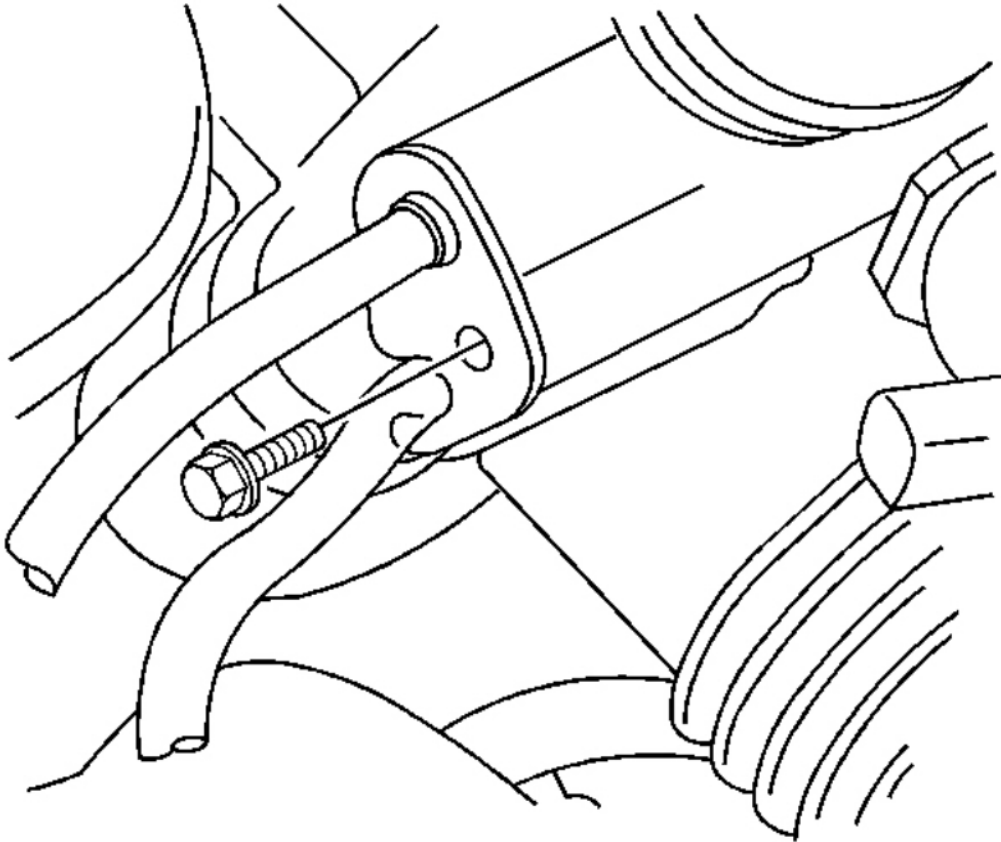


Fig. 92: View Of Power Steering Gear Inlet Hose-To-Power Steering Gear Retaining Bolt

Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the power steering hoses to power steering gear retaining bolt.

Tighten: Tighten the bolt to 23 N.m (17 lb ft).

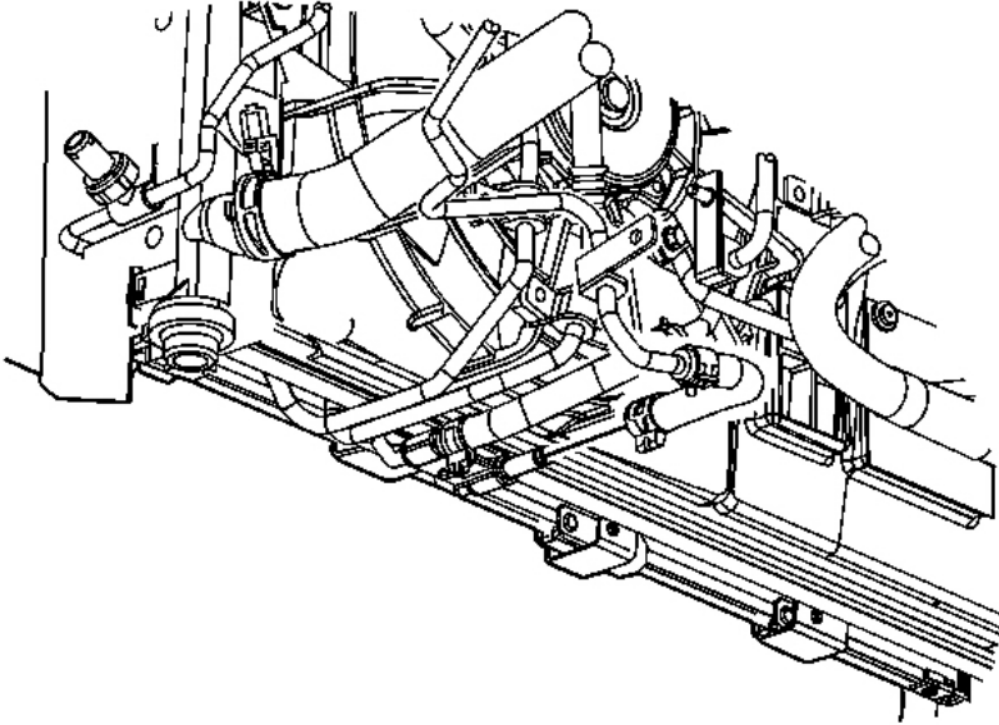


Fig. 93: View Of Power Steering Gear Outlet Hose & Power Steering Cooler
Courtesy of GENERAL MOTORS CORP.

4. Connect the power steering gear outlet hose to the power steering cooler.

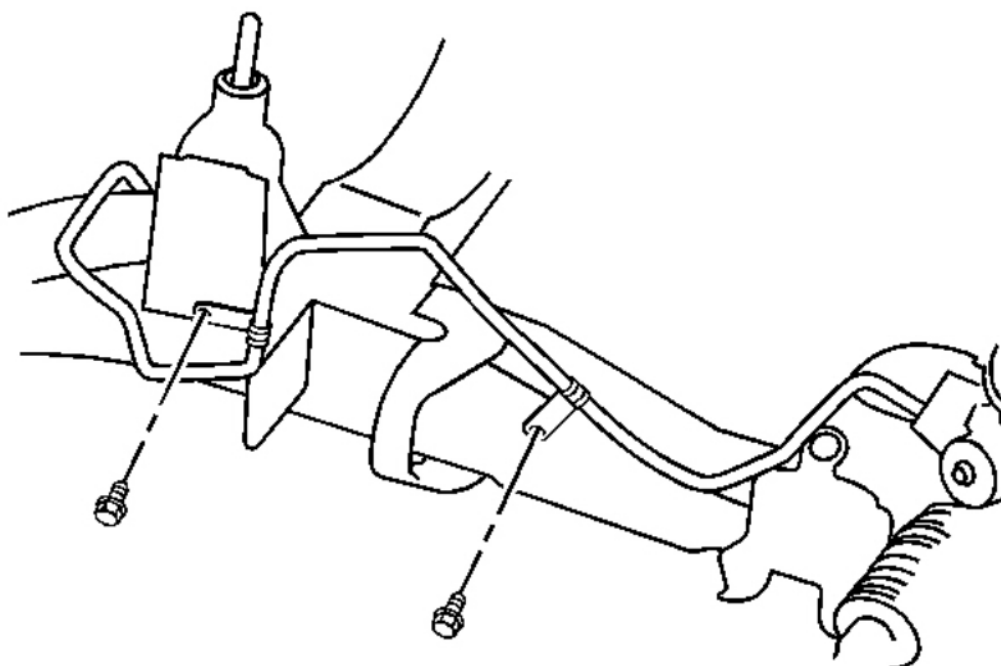


Fig. 94: View Of Power Steering Gear Outlet Hose-To-Frame Retaining Bolts
Courtesy of GENERAL MOTORS CORP.

5. Install the power steering gear outlet hose to frame retaining bolt.

Tighten: Tighten the bolt to 4 N.m (40 lb in).

6. Remove the drain pan from under the vehicle.
7. Install the front air deflector. Refer to **Air Deflector Replacement - Front** in Body Front End.
8. Lower the vehicle.
9. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.

POWER STEERING GEAR REPLACEMENT

Tools Required

- **J 24319-B** Steering Linkage and Tie Rod Puller

- **J 42640** Steering Column Anti-Rotation Pin

Removal Procedure

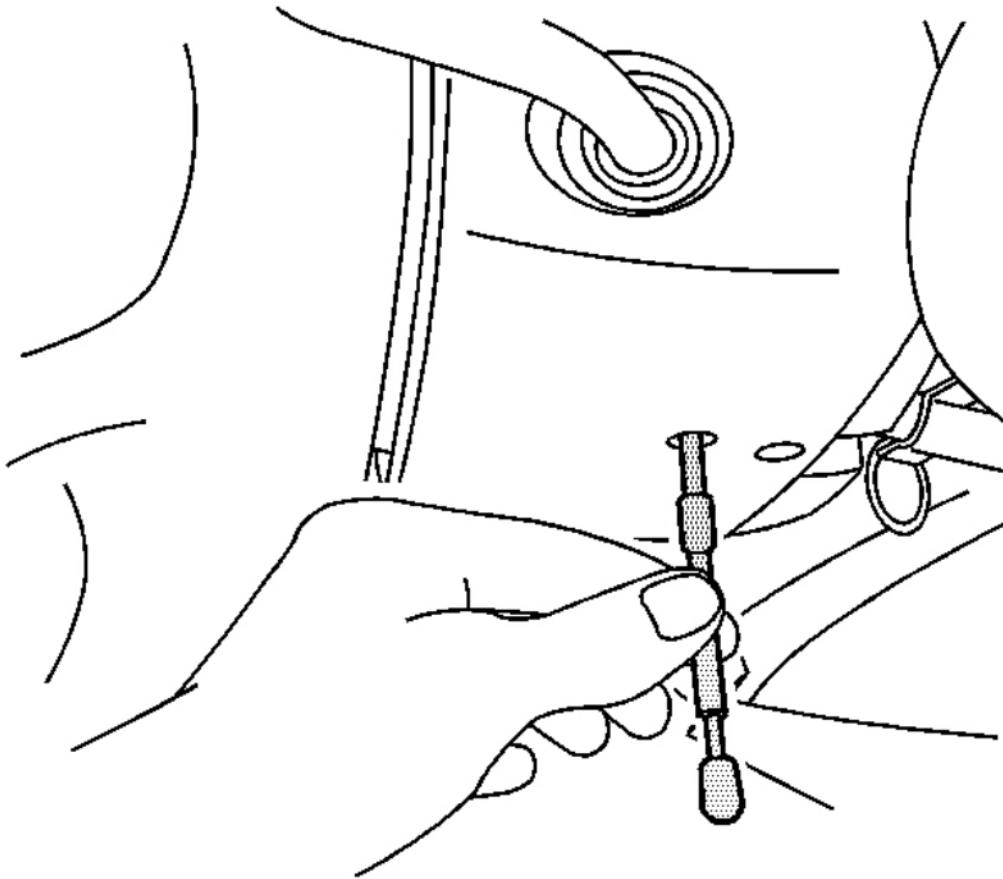


Fig. 95: Identifying J 42640
Courtesy of GENERAL MOTORS CORP.

1. Install the **J 42640** to the steering column.
2. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** in General Information.
3. Remove the front tires and wheels. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
4. Remove the front air deflector. Refer to **Air Deflector Replacement - Front** in Body

Front End.

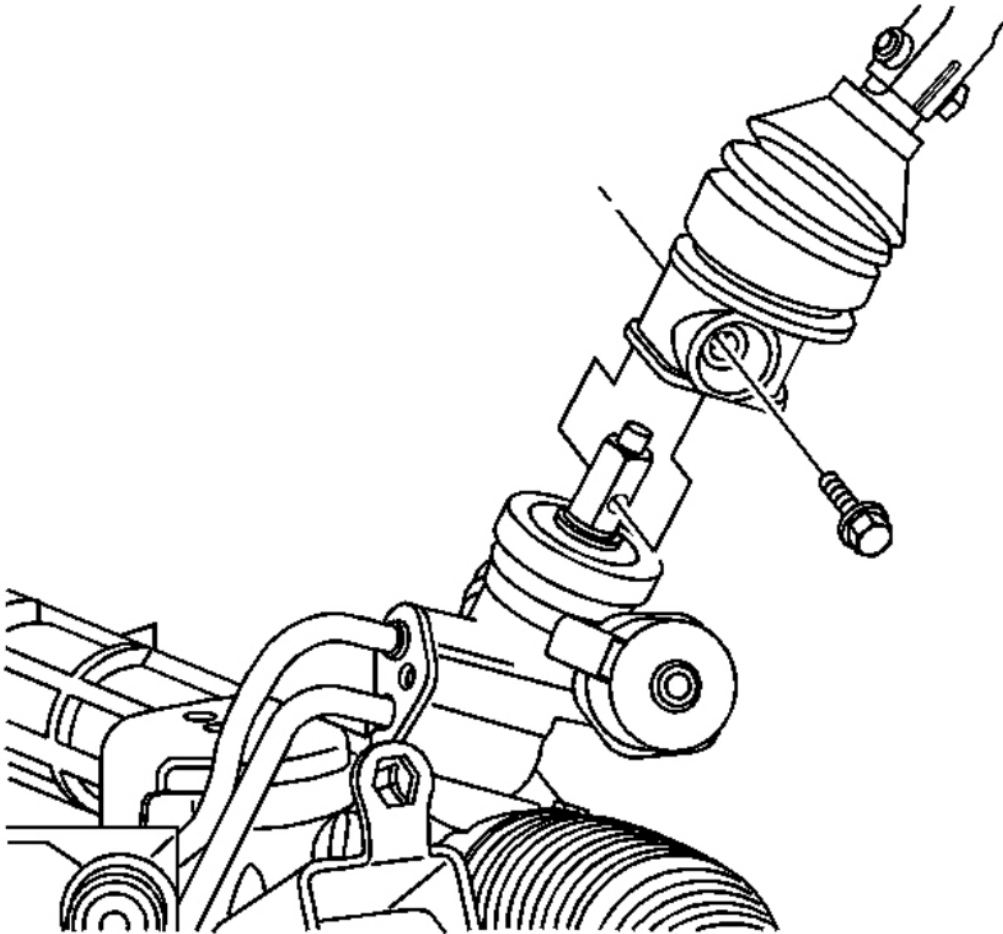


Fig. 96: View Of Intermediate Shaft Lower Pinch Bolt
Courtesy of GENERAL MOTORS CORP.

CAUTION: Failure to disconnect the intermediate shaft from the rack and pinion stub shaft can result in damage to the steering gear and/or intermediate shaft. This damage can cause loss of steering control which could result in personal injury.

NOTE: The wheels of the vehicle must be straight ahead and the steering column in the LOCK position before disconnecting the steering column or intermediate shaft from the steering gear. Failure to do so will cause the coil assembly in the steering column to become uncentered which will cause damage to the coil assembly.

5. Remove the intermediate shaft lower pinch bolt.
6. Disconnect the intermediate shaft from the power steering gear.

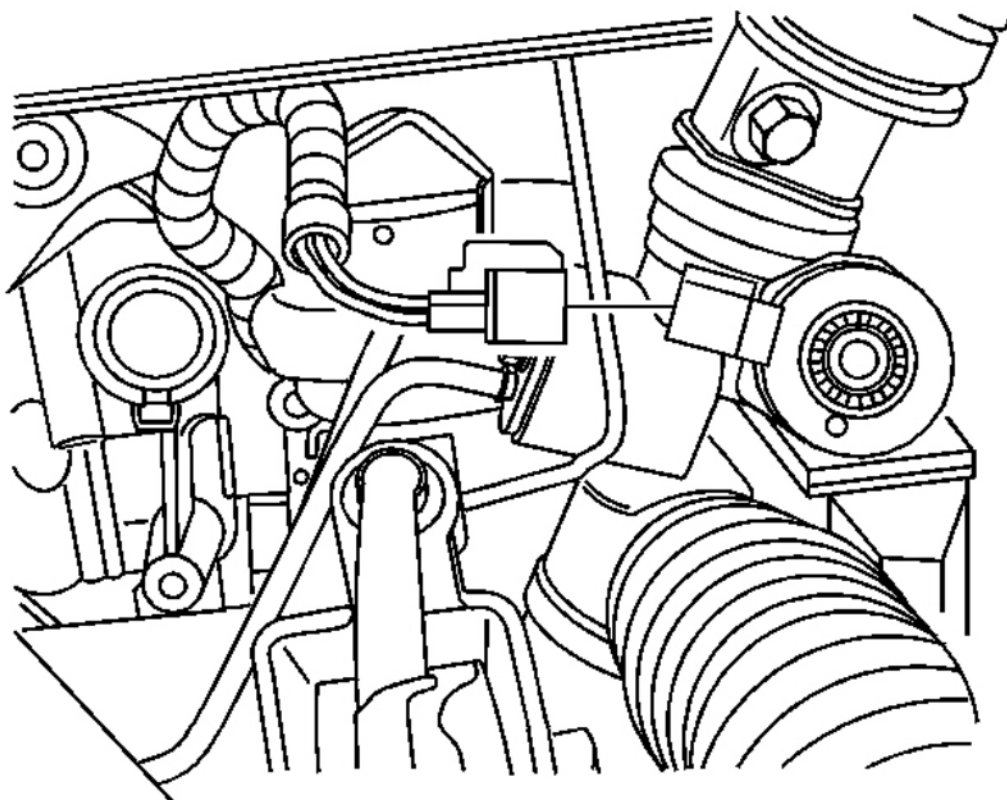


Fig. 97: View Of Variable Effort Steering Harness Connector
Courtesy of GENERAL MOTORS CORP.

7. Disconnect the variable effort steering harness connector.

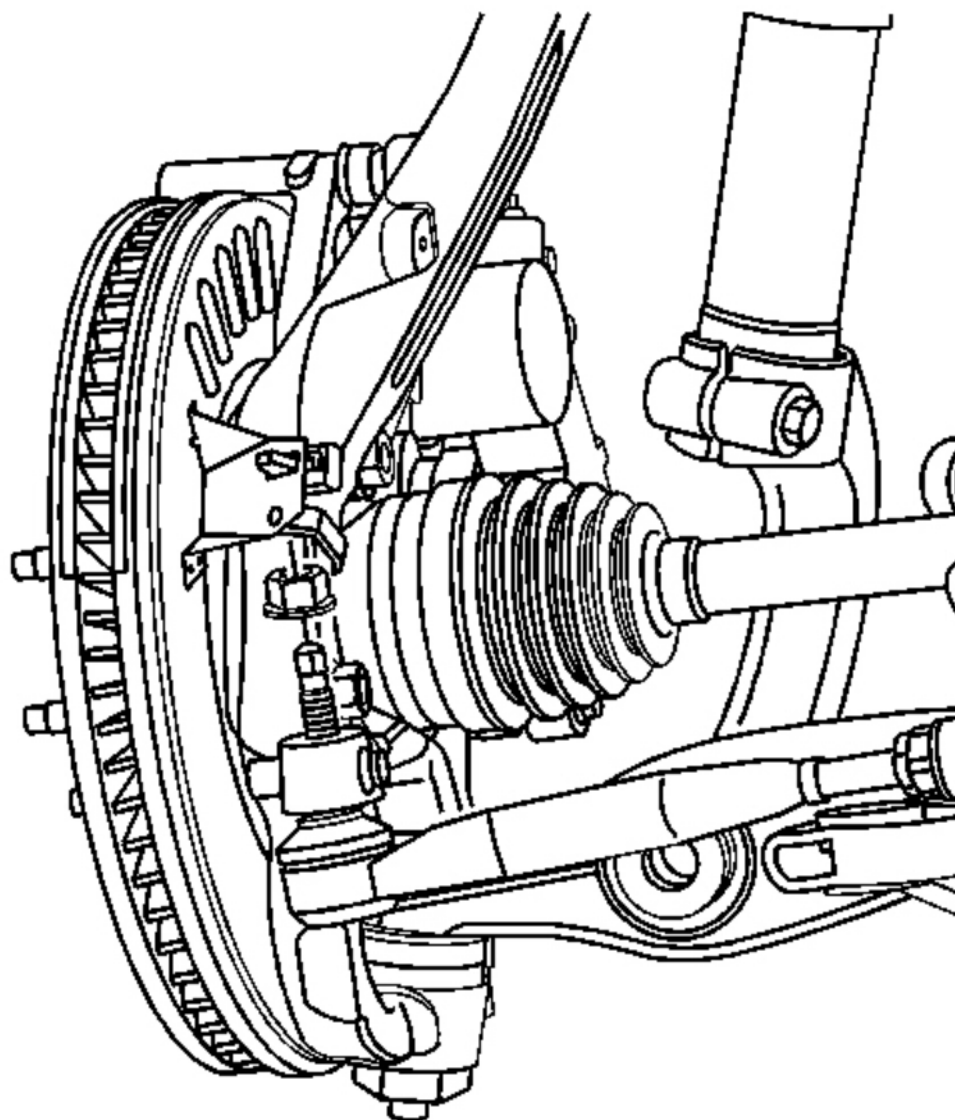


Fig. 98: View Of Outer Tie Rod Retaining Nuts
Courtesy of GENERAL MOTORS CORP.

8. Remove the outer tie rod retaining nuts.

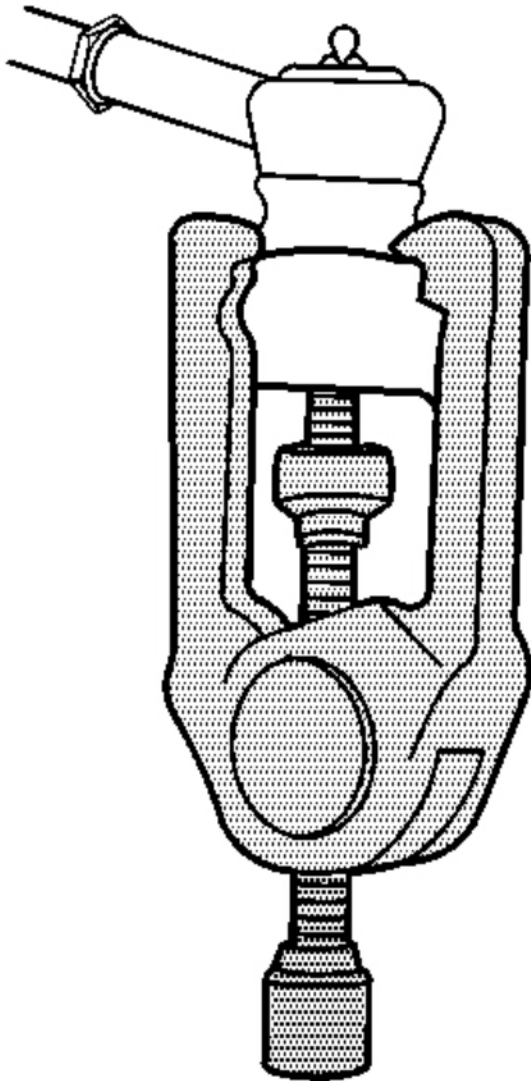


Fig. 99: Removing Outer Tie Rod Assembly From Steering Knuckle
Courtesy of GENERAL MOTORS CORP.

9. Using the **J 24319-B** , separate the outer tie rod from the steering knuckles.
10. Place a drain pan under the vehicle.

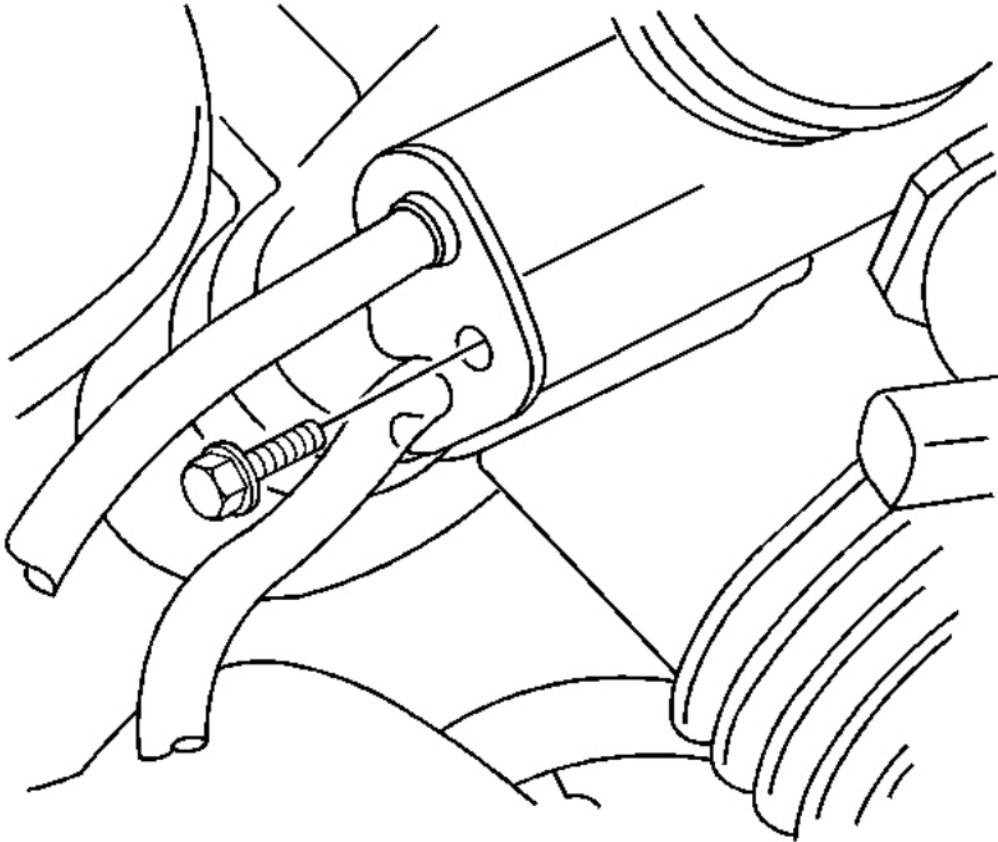


Fig. 100: View Of Power Steering Gear Inlet Hose-To-Power Steering Gear Retaining Bolt

Courtesy of GENERAL MOTORS CORP.

11. Remove the power steering hoses to power steering gear retaining bolt.

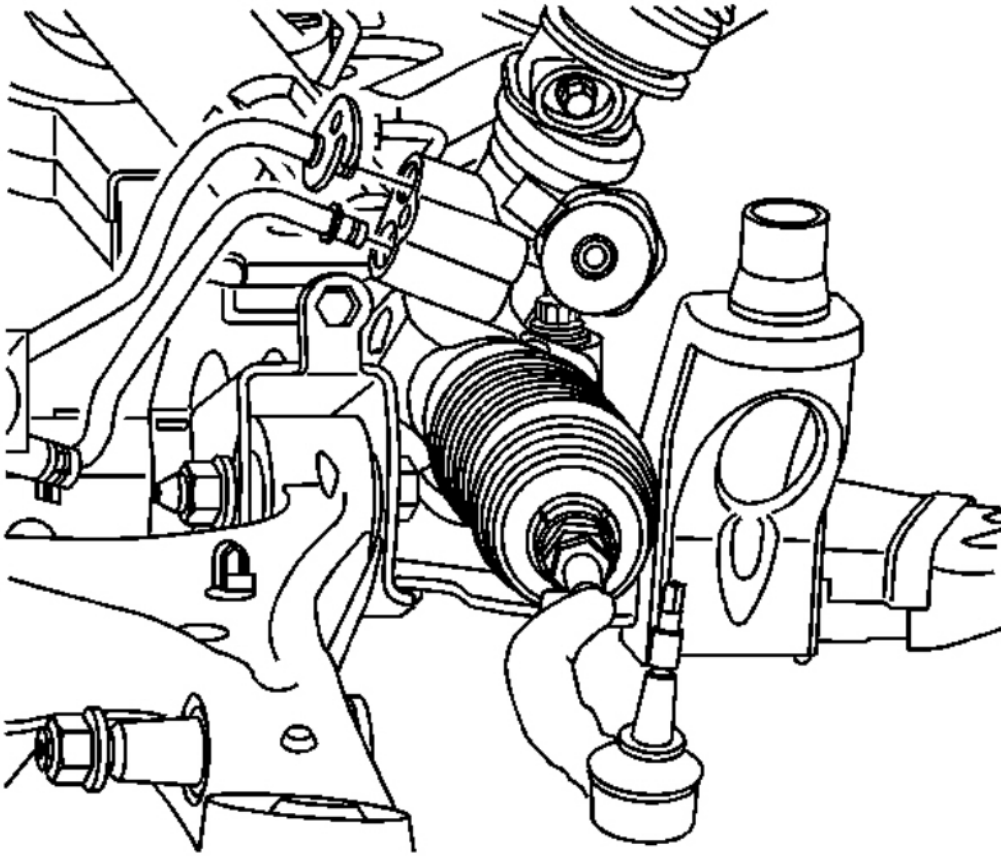


Fig. 101: View Of Power Steering Gear And Hoses
Courtesy of GENERAL MOTORS CORP.

12. Disconnect the power steering hoses from the power steering gear.
13. Disconnect the left brake line from the brake hose.
14. Plug the brake line.
15. Carefully position the brake line to the side.

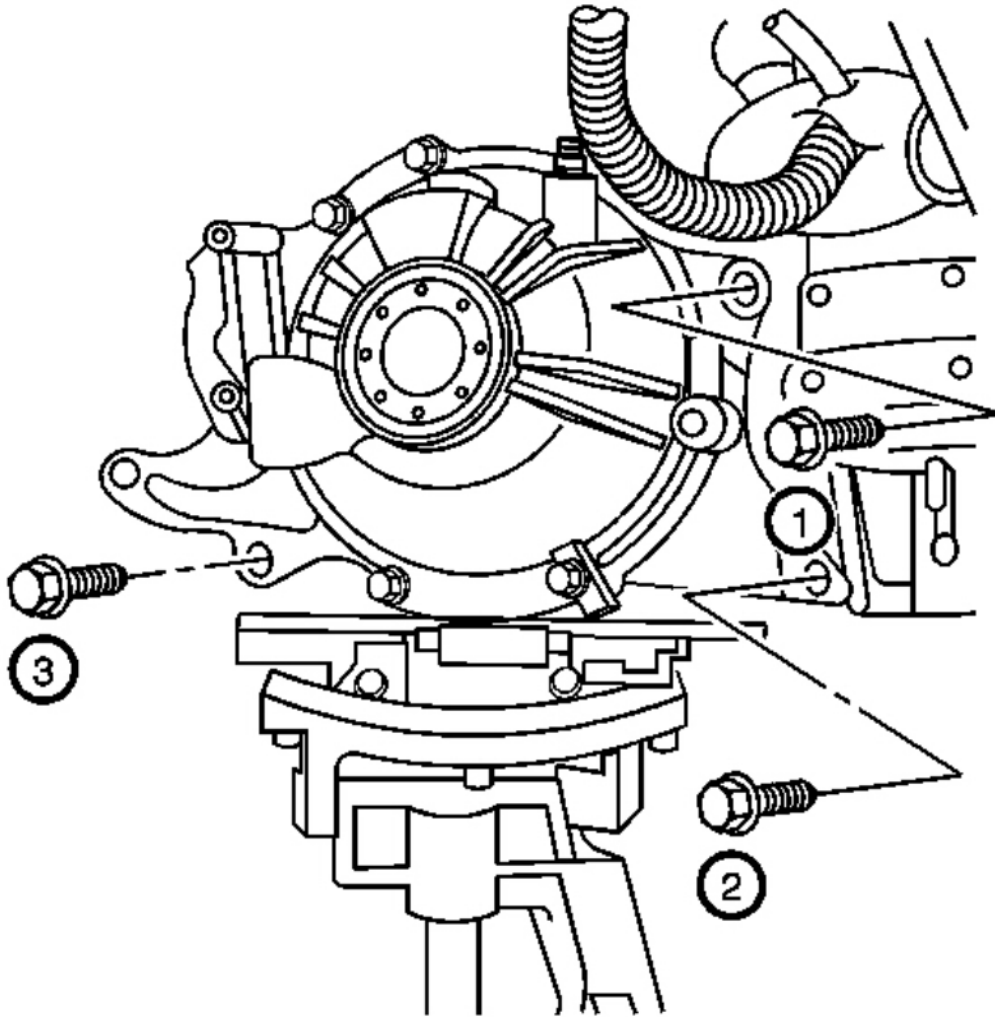


Fig. 102: Supporting Bottom Of Front Differential Housing
Courtesy of GENERAL MOTORS CORP.

16. If equipped with AWD, using a suitable jack, support the bottom of the front differential housing.

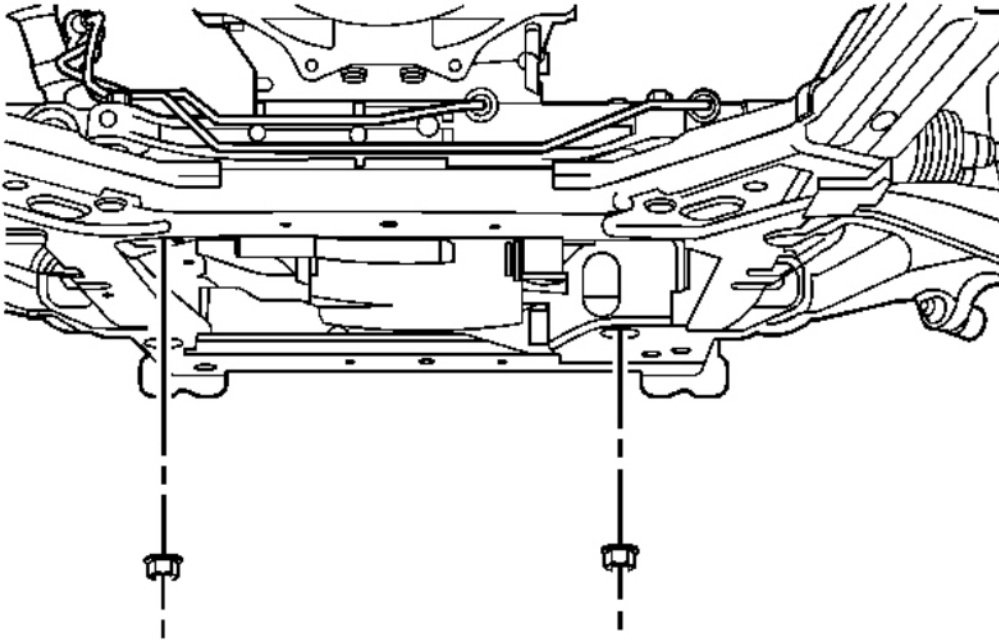


Fig. 103: View Of Engine Mount Lower Retaining Nuts
Courtesy of GENERAL MOTORS CORP.

17. If equipped with AWD, loosen the right engine mount nut.
18. If equipped with AWD, raise the differential housing to clear the steering rack bolt.

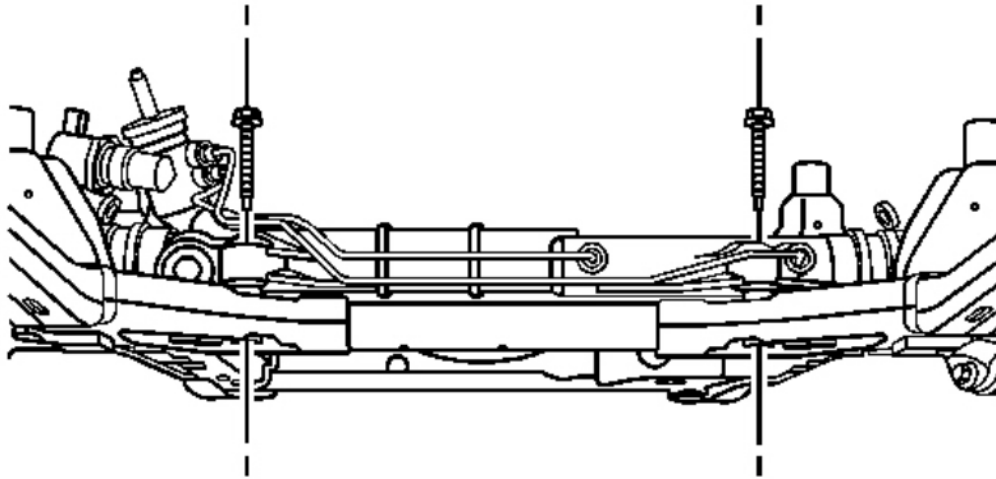


Fig. 104: View Of Power Steering Gear Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

19. Remove the power steering gear mounting bolts.
20. Remove the left rearward lower control arm to frame mounting nut and bolt.
21. Remove the power steering gear through the left wheel opening.

Installation Procedure

1. Install the power steering gear through the left wheel opening.
2. Install the left rearward lower control arm to frame mounting bolt and nut.

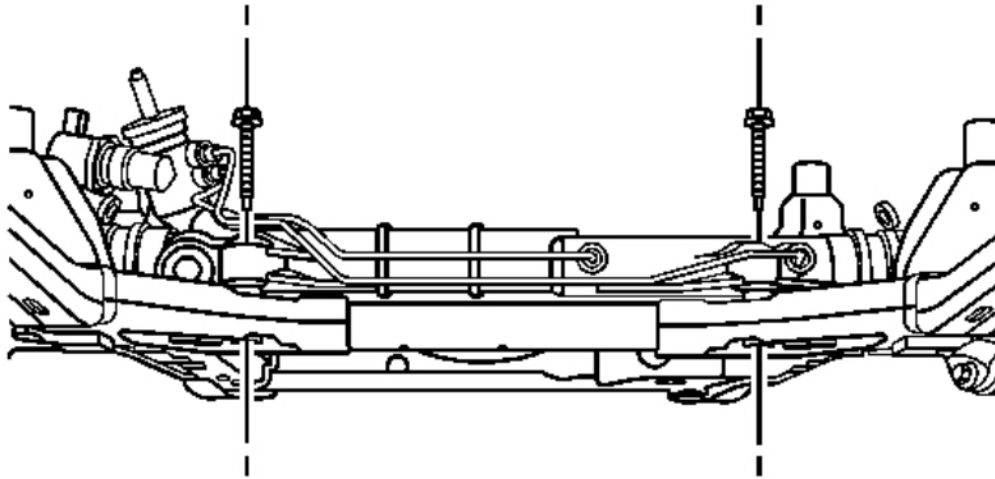


Fig. 105: View Of Power Steering Gear Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the power steering gear retaining bolts.

Tighten: Tighten the bolts to 180 N.m (134 lb ft).

4. If equipped with AWD, lower the differential housing.

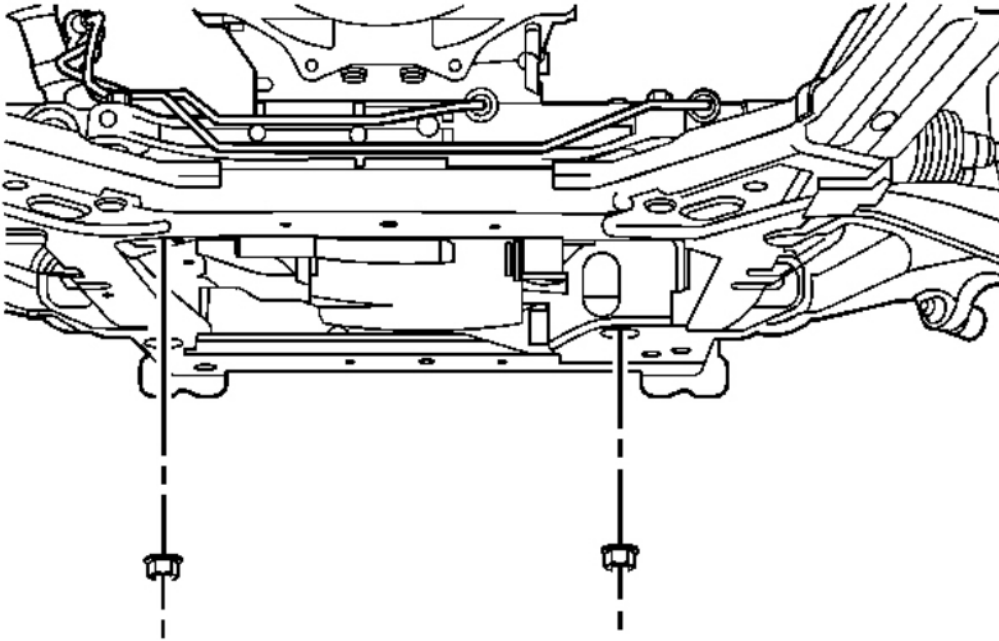


Fig. 106: View Of Engine Mount Lower Retaining Nuts
Courtesy of GENERAL MOTORS CORP.

5. If equipped with AWD, tighten the right lower engine mount to the frame nut.

Tighten: Tighten the nut to 80 N.m (59 lb ft).

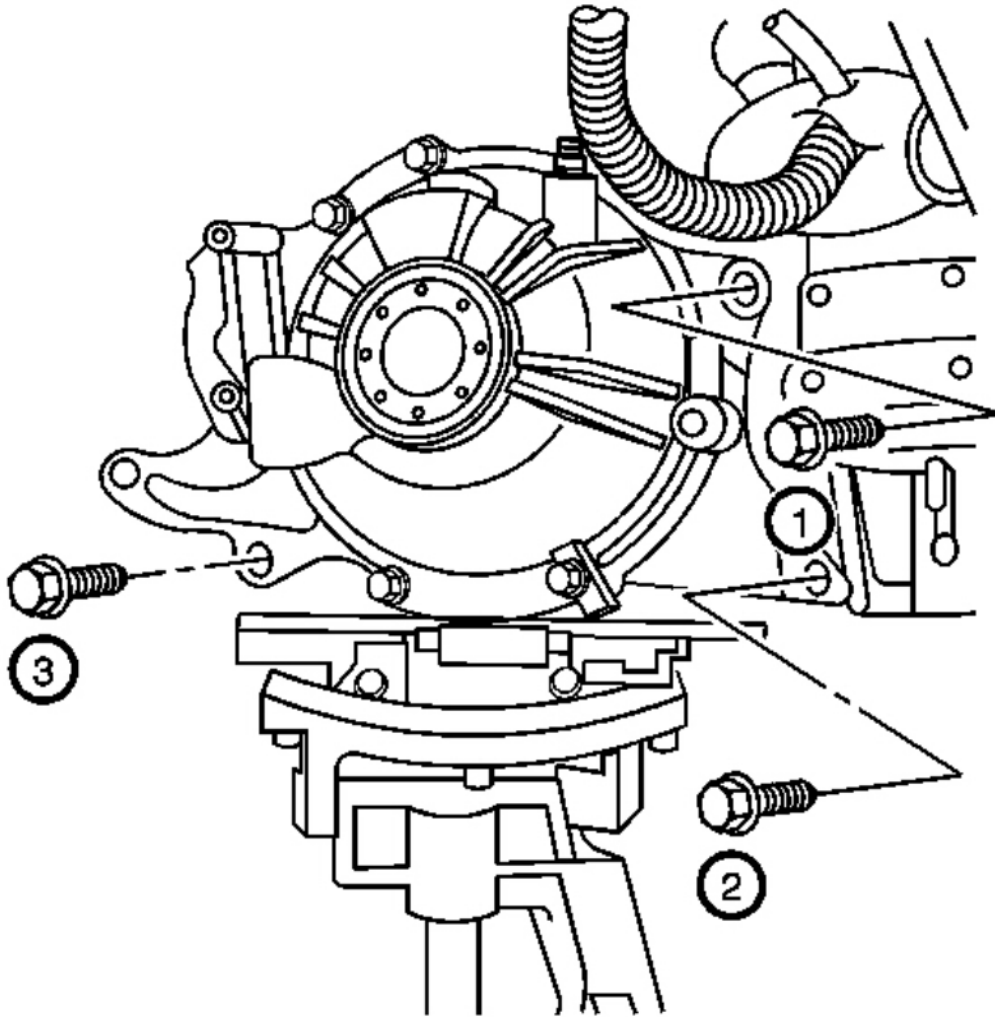


Fig. 107: Supporting Bottom Of Front Differential Housing
Courtesy of GENERAL MOTORS CORP.

6. If equipped with AWD, remove the support from the bottom of the differential housing.
7. Install the left brake line to the brake hose.

Tighten: Tighten the line to 27 N.m (20 lb in).

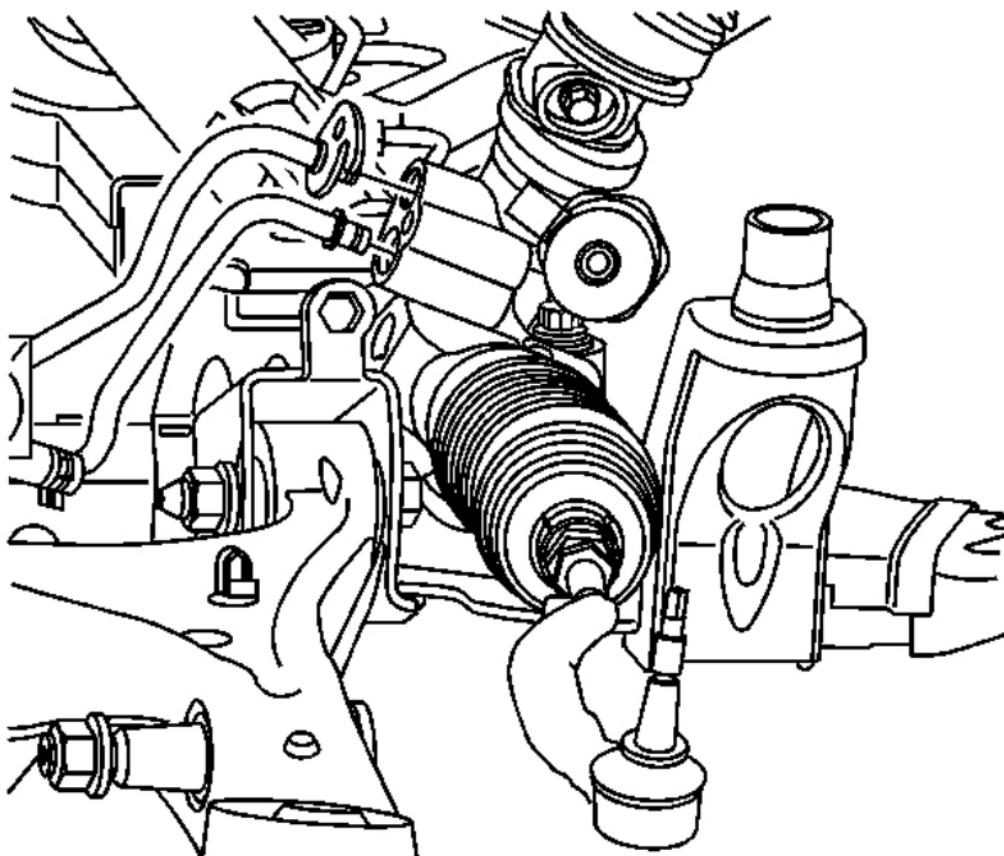


Fig. 108: View Of Power Steering Gear And Hoses
Courtesy of GENERAL MOTORS CORP.

8. Install the power steering hoses to the power steering gear.

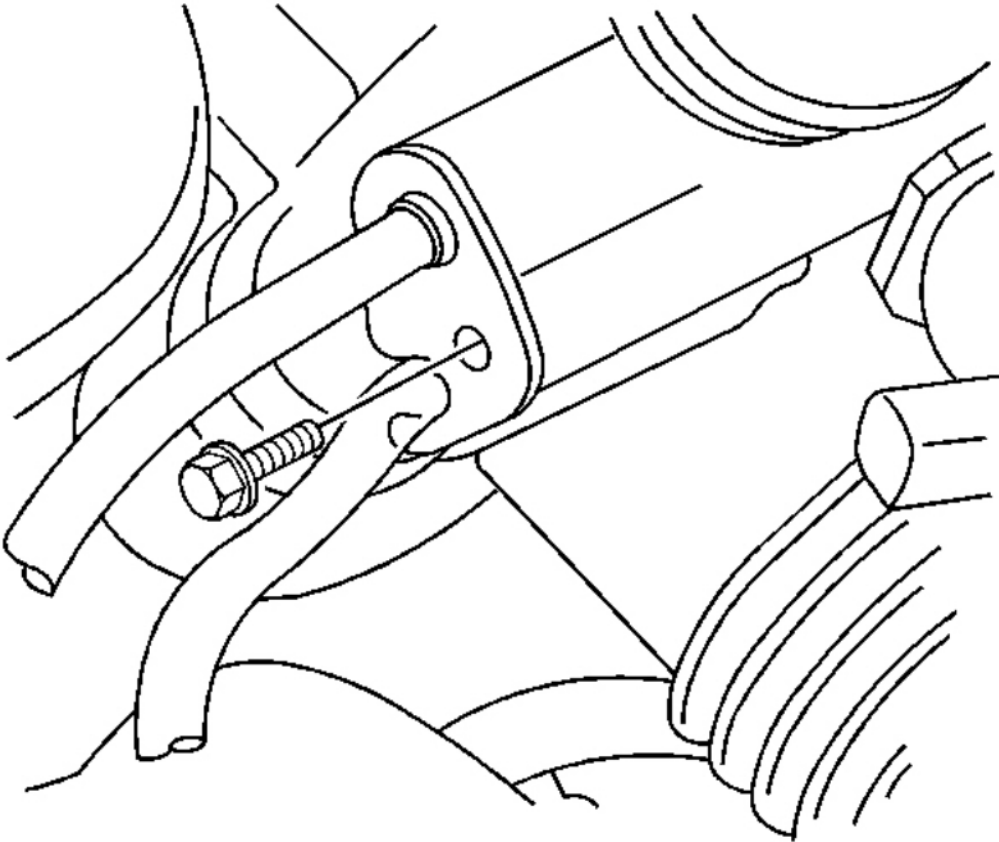


Fig. 109: View Of Power Steering Gear Inlet Hose-To-Power Steering Gear Retaining Bolt

Courtesy of GENERAL MOTORS CORP.

9. Install the power steering hoses to the power steering gear retaining bolt.

Tighten: Tighten the bolt to 23 N.m (17 lb ft).

10. Remove the drain pan from under the vehicle.

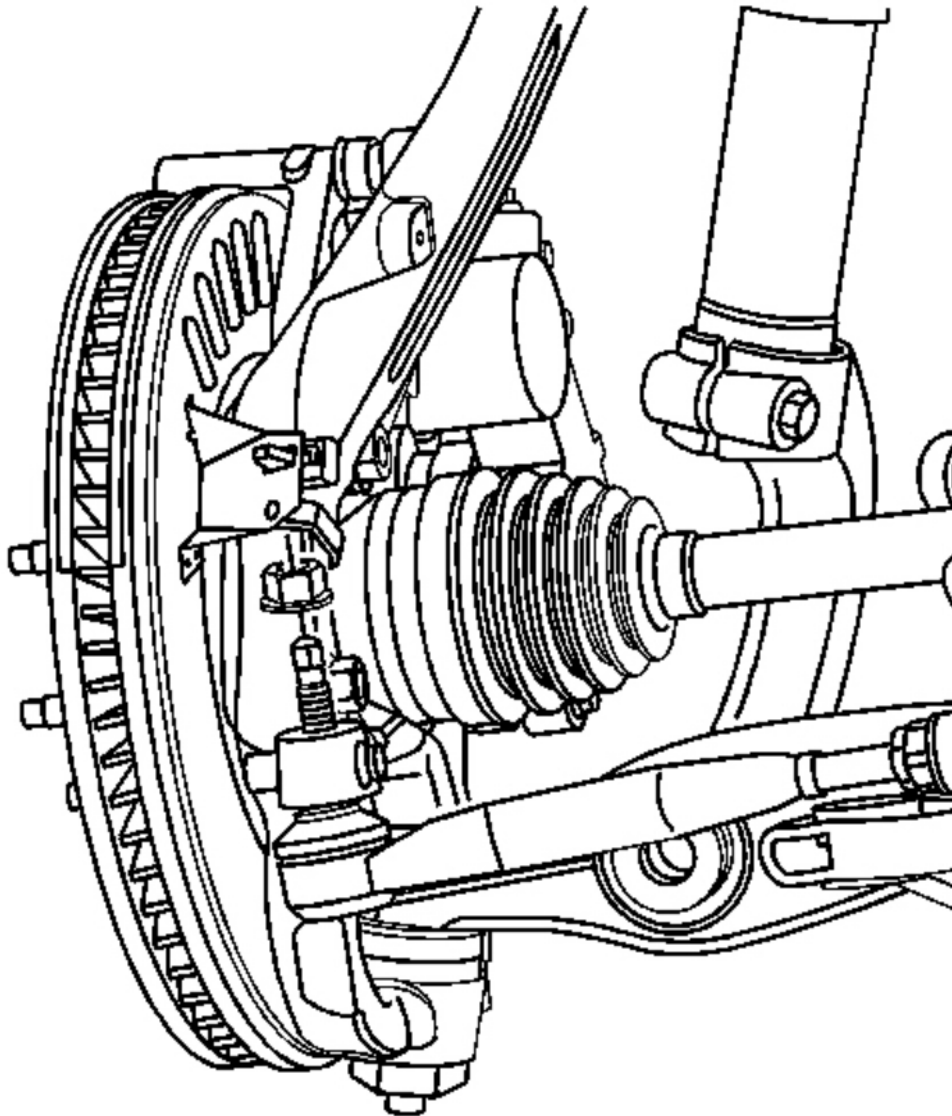


Fig. 110: View Of Outer Tie Rod Retaining Nuts
Courtesy of GENERAL MOTORS CORP.

11. Install the outer tie rod to the steering knuckles.

Tighten: Tighten the nuts to 70 N.m (52 lb ft).

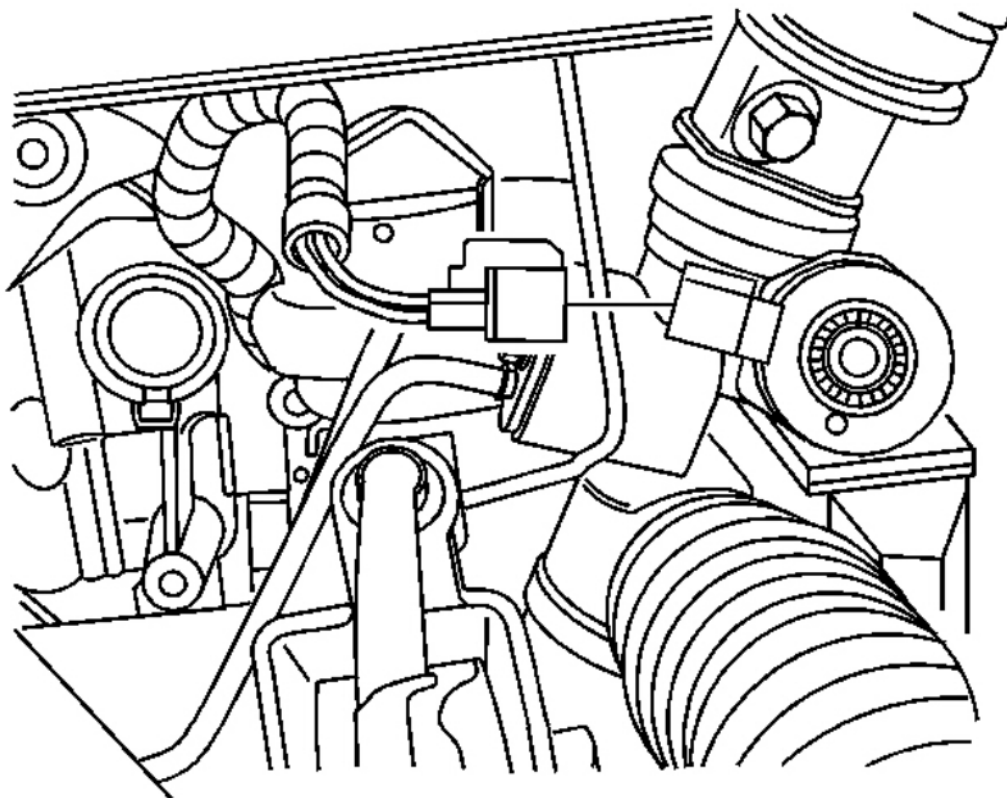


Fig. 111: View Of Variable Effort Steering Harness Connector
Courtesy of GENERAL MOTORS CORP.

12. Connect the variable effort steering harness connector.

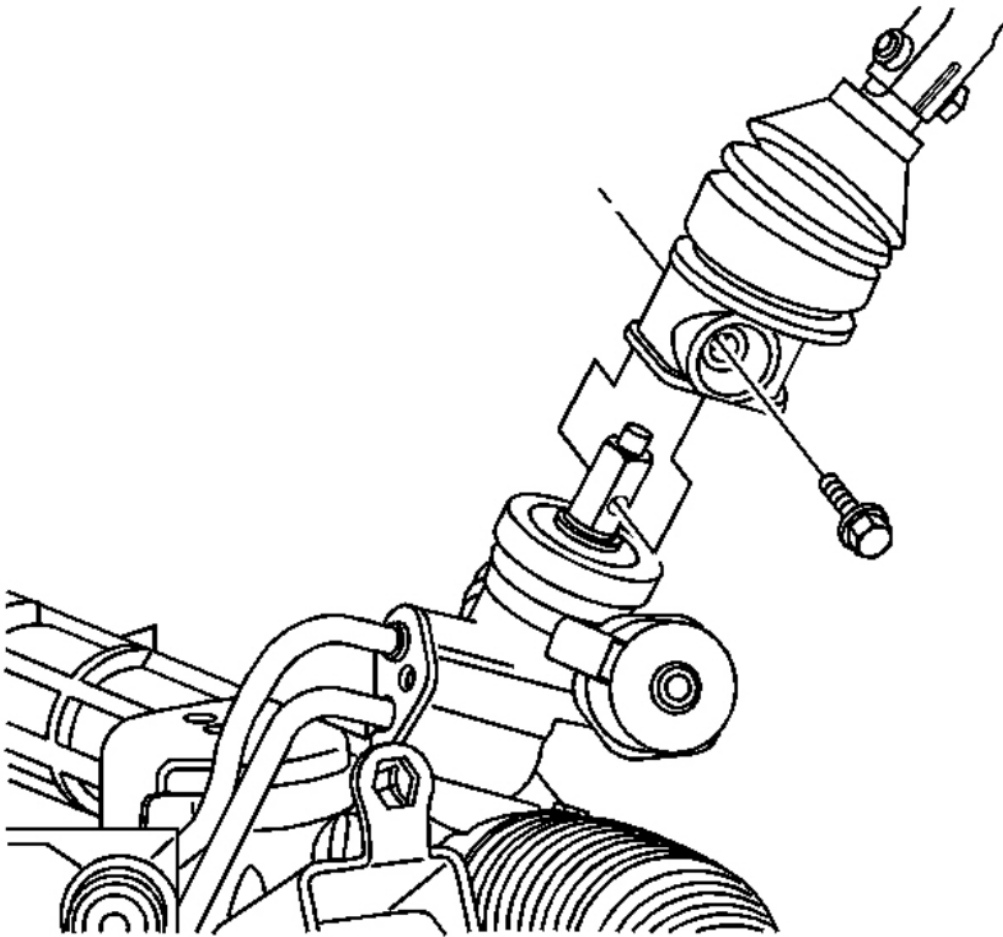


Fig. 112: View Of Intermediate Shaft Lower Pinch Bolt
Courtesy of GENERAL MOTORS CORP.

13. Connect the intermediate shaft to the power steering gear.
14. Install the intermediate shaft lower pinch bolt.

Tighten: Tighten the bolt to 50 N.m (37 lb ft).

15. Install the tire and wheels. Refer to **Tire and Wheel Removal and Installation** in Tires and Wheels.
16. Lower the vehicle.

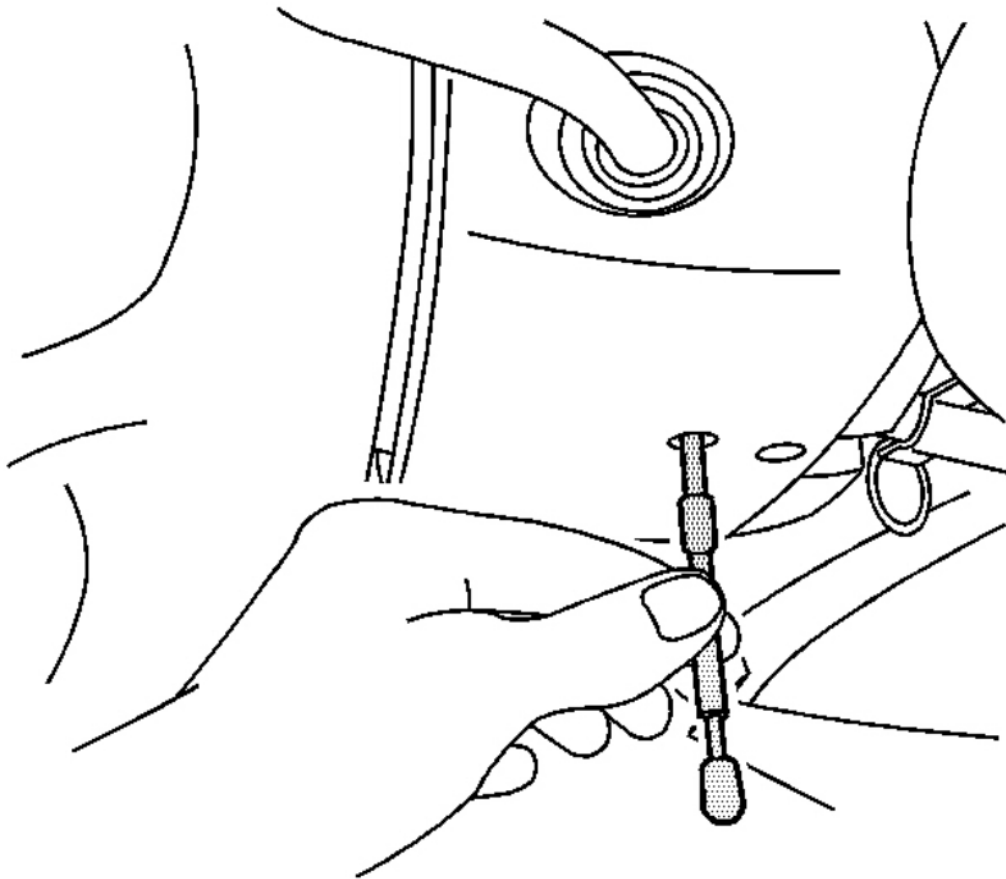


Fig. 113: Identifying J 42640
Courtesy of GENERAL MOTORS CORP.

17. Remove the **J 42640** from the steering column.
18. Bleed the power steering system. Refer to **Bleeding the Power Steering System**.
19. Adjust the front toe. Refer to **Front Toe Adjustment** in Wheel Alignment.

DESCRIPTION AND OPERATION

POWER STEERING SYSTEM DESCRIPTION AND OPERATION (W/O ELECTRO-HYDRAULIC STEERING)

The hydraulic power steering pump is a constant displacement vane-type pump that provides

hydraulic pressure and flow for the power steering gear. The hydraulic power steering pumps are either belt-driven or direct-drive, cam-driven.

The power steering fluid reservoir holds the power steering fluid and may be integral with the power steering pump or remotely located. The following locations are typical locations for the remote reservoir:

- Mounted to the front of the dash panel
- Mounted to the inner fender
- Mounted to a bracket on the engine

The 2 basic types of power steering gears are listed below:

- A recirculating ball system
- A rack and pinion system

In the recirculating ball system, a worm gear converts steering wheel movement to movement of a sector shaft. A pitman arm attached to the bottom of the sector shaft actually moves one tie rod and an intermediate rod move the other tie rod.

In the rack and pinion system, the rack and the pinion are the 2 components that convert steering wheel rotation to lateral movement. The steering shaft is attached to the pinion in the steering gear. The pinion rotates with the steering wheel. Gear teeth on the pinion mesh with the gear teeth on the rack. The rotating pinion moves the rack from side to side. The lateral action of the rack pushes and pulls the tie rods in order to change the direction of the vehicle's front wheels.

The power steering pressure hose connects the power steering pump union fitting to the power steering gear and allows pressurized power steering fluid to flow from the pump to the gear.

The power steering return hose returns fluid from the power steering gear back to the power steering fluid reservoir. The power steering return line may contain an integral fin-type or line-type power steering fluid cooler.

In a typical power steering system, a pump generates hydraulic pressure, causing fluid to flow, via the pressure hose, to the steering gear valve assembly. The steering gear valve assembly regulates the incoming fluid to the right and left chambers in order to assist in right and left turns.

Turning the steering wheel activates the valve assembly, which applies greater fluid pressure and flow to 1 side of the steering gear piston, and lower pressure and flow to the other side of the piston. The pressure assists the movement of the gear piston. Tie rods transfer this force to the

2004 Cadillac SRX

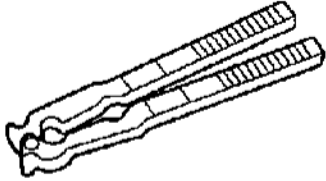
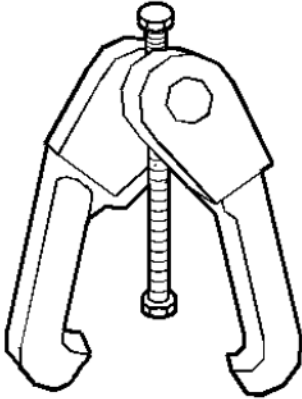
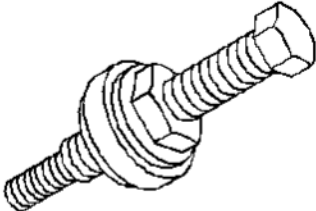
2004 STEERING Power Steering System - SRX

front wheels, which turn the vehicle right or left.

SPECIAL TOOLS AND EQUIPMENT

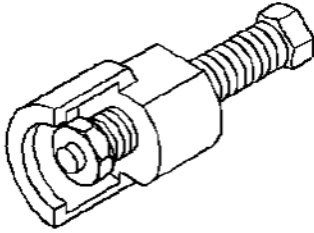
SPECIAL TOOLS

Special Tools

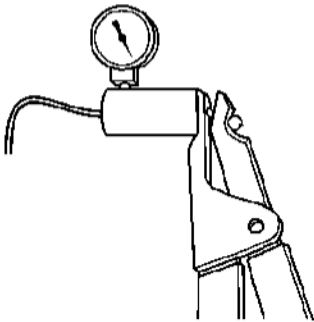
Illustration	Tool Number/ Description
	J 22610 Keystone Clamp Pliers
	J 24319-B Steering Linkage and Tie Rod Puller
	J 25033-C Pulley Installer

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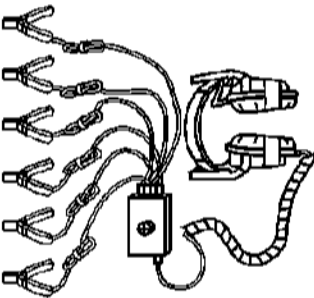
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J 25034-C
Pulley Remover



J 35555
Metal Mity® Vac

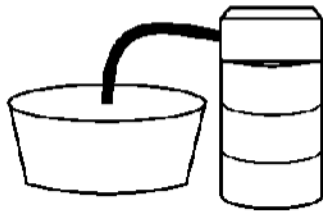
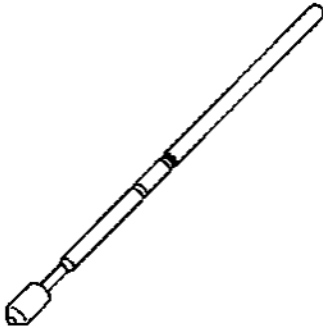


J 39570
Chassis Ear

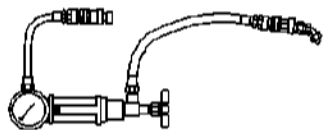
J 42640
Steering Column Anti-Rotation Pin

2004 Cadillac SRX

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J 43485
Power Steering Bleeder Adapter



J 44721
Power Steering Analyzer