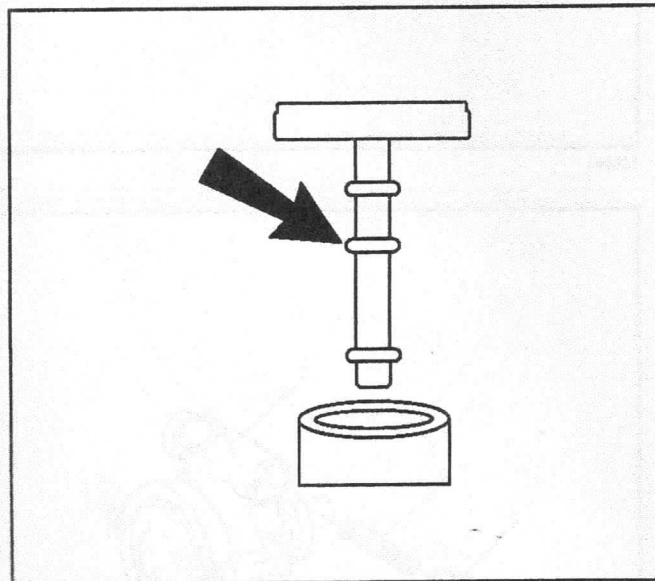


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7. Reinstall the reservoir cap.
8. When you inspect the fluid level after you service the steering system, bleed the air from the system.

Refer to *Bleeding Power Steering System*.

### Bleeding Power Steering System

#### Tools Required

- J 35555 Mity Vac
- J 43485 Power Steering Bleeder Adapter

**Important:** Use clean, new power steering fluid type only.

- See the Maintenance and Lubrication subsection for fluid specifications.

**Notice:** 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.

**Notice:** 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.

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

- 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.

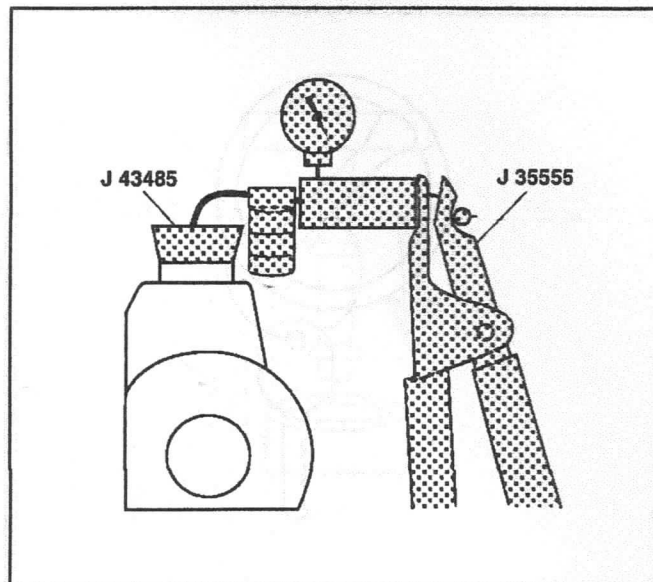
- Verify that all hose connections are tight.

**Important:** Maintain the fluid level throughout the bleed procedure.

1. Remove the pump reservoir cap.
2. Fill the pump reservoir with fluid to the "FULL COLD" level.

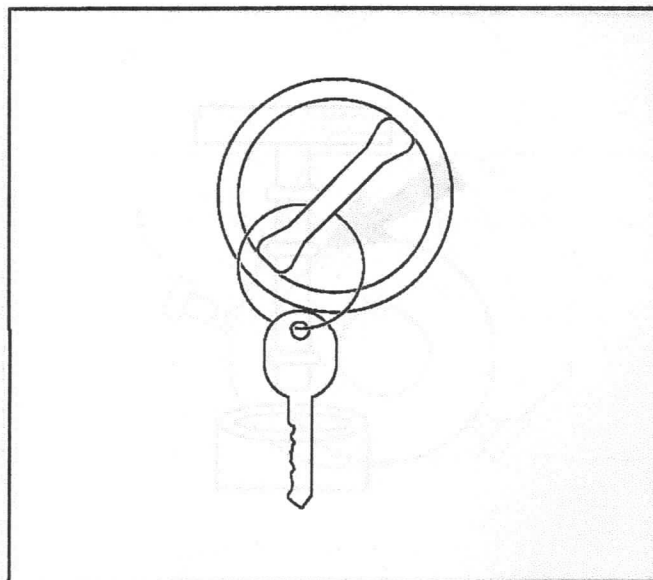
3. Attach *J 43485* to *J 35555* or equivalent.
4. Place *J 43485* on or in the pump reservoir filler neck.
5. Apply a vacuum of 68 kPa (20 in Hg) maximum.
6. Wait 5 minutes.

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.



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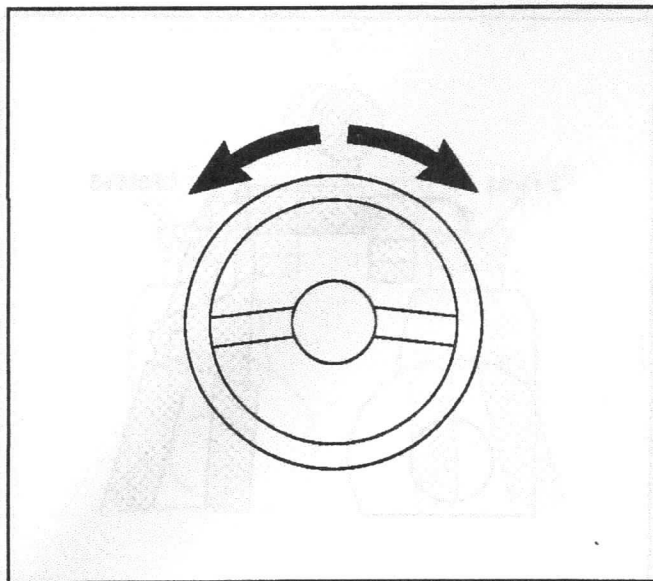
7. Remove the *J 43485* and the *J 35555*.
8. Reinstall the pump reservoir cap.
9. Start the engine. Allow the engine to idle.
10. Turn off the engine.
11. Verify the fluid level. Repeat steps 9 through 11 until fluid stabilizes.



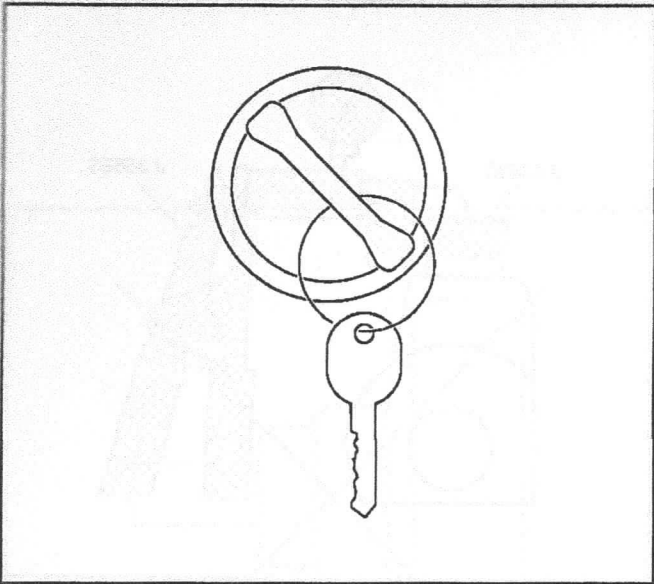
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**Important:** Do not turn steering wheel to lock.

12. Start the engine. Allow the engine to idle.
13. Turn the steering wheel 180–360 degrees in both directions 5 times.

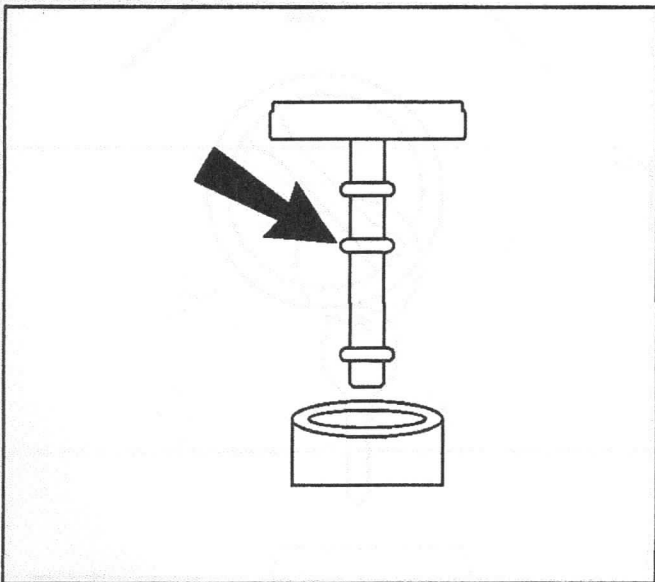


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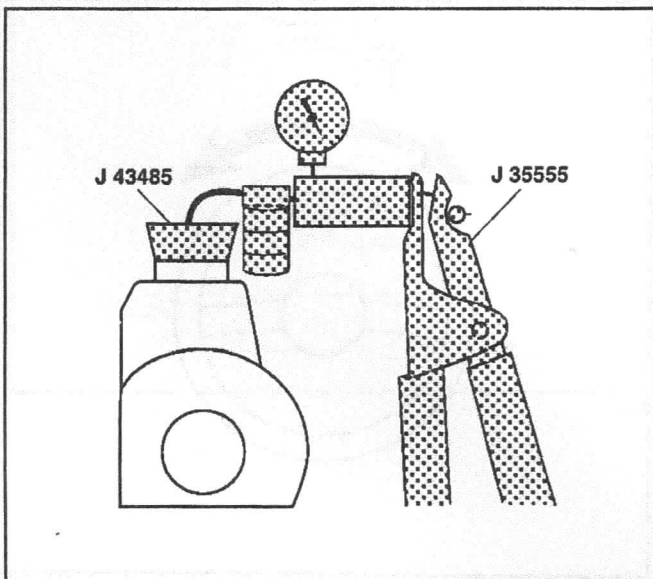
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14. Switch the ignition off.
15. Verify the fluid level.



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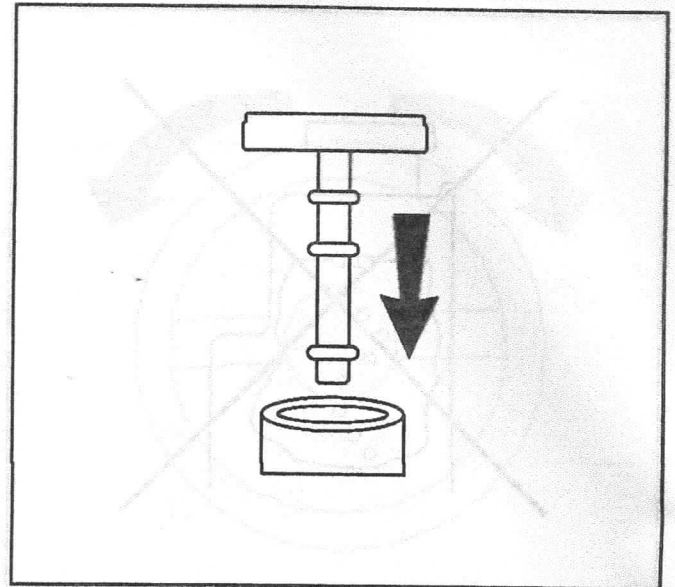
16. Remove the pump reservoir cap.



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

23. Reinstall the pump reservoir cap.



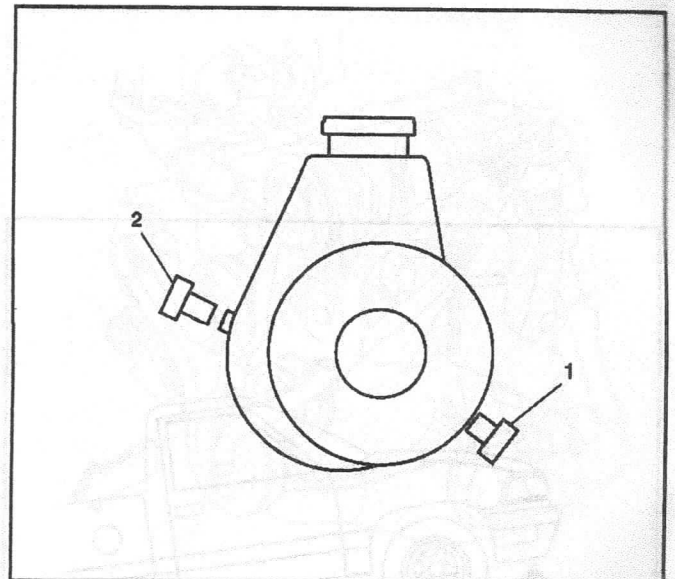
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**Excessive Vacuum Drop Diagnosis**

**Tools Required**

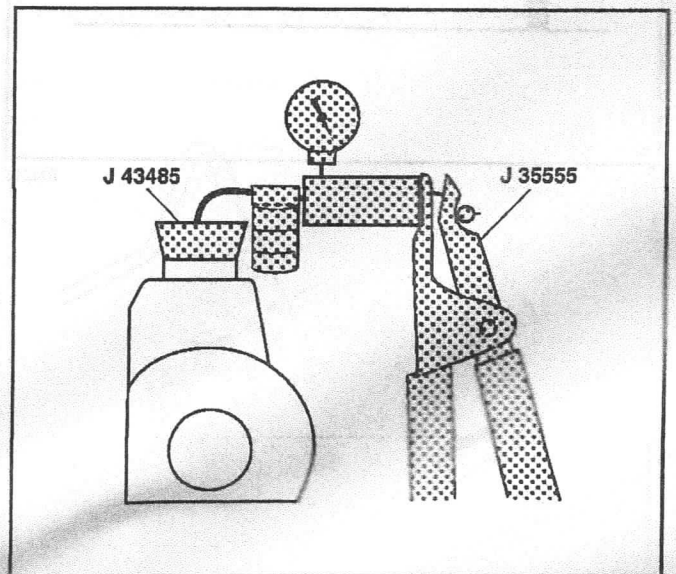
- J 35555 Mity Vac
- J 43485 Power Steering Bleed Adapter

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

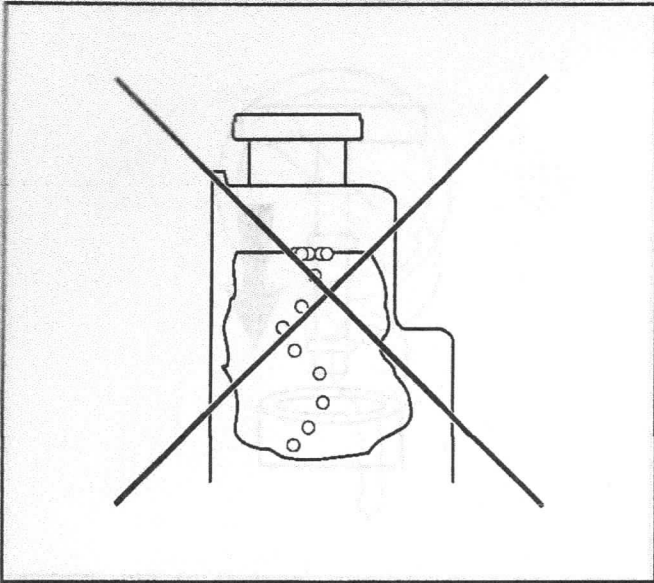


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3. Attach J 43485 to J 35555 or equivalent.
4. Place J 43485 on or in the pump reservoir filler neck.
5. Apply a vacuum of 68 kPa (20 in Hg) maximum.
6. If the vacuum drops again, repair or replace the pump. If the vacuum holds steady, continue to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



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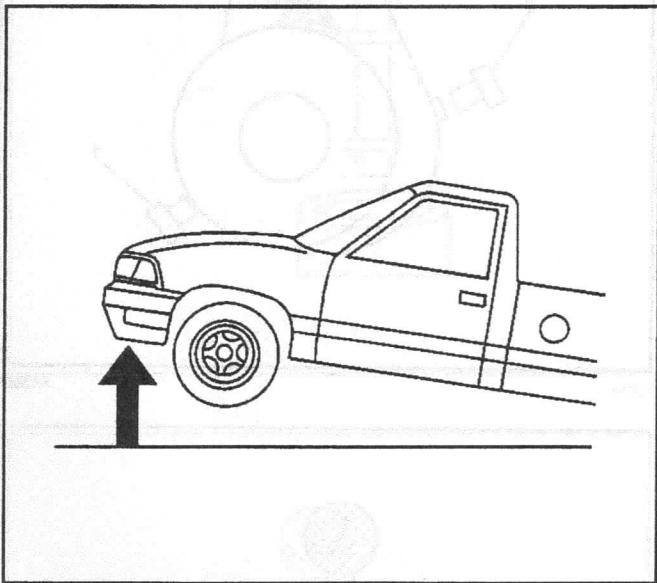


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**Important:** Fluid must be free from bubbles and foam. Be aware of periodic bubbles that indicate a loose connection or leaking O-ring seal in the return hose or the pressure hose.

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 kilometers (10 miles) 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 no leaking in the steering system.
  - The fluid is free of foam or discoloration.

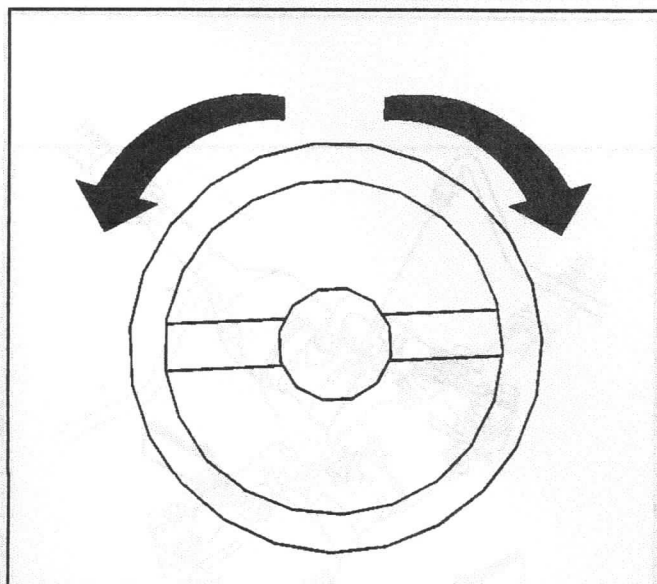


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### Flushing the Power Steering System

1. Raise the front end of the vehicle off of the ground until the wheels are free to turn. Refer to *Lifting and Jacking the Vehicle* in Cautions and Notices.
2. Remove the power steering return hose at the pump inlet connector.
3. Plug the connector port on the pump.
4. Position the hose toward a large container in order to catch the draining fluid.
5. Run the engine at idle while an assistant fills the reservoir with new power steering fluid.

6. Turn the steering wheel from stop to stop.  
DO NOT contact the wheel stops or hold the wheel in a corner. Fluid will stop and the pump will be in pressure relief mode. A sudden overflow from the reservoir may develop if the wheel is held at a stop.
7. Install all of the pipes and the hoses.
8. Fill the system with new power steering fluid.
9. Bleed the system.  
Refer to *Bleeding Power Steering System*.
10. Operate the engine for about 15 minutes.
11. Continue until the draining fluid is clear.
12. If foreign material is evident in the fluid, replace all of the hoses.
13. Disassemble and clean all of the power steering components.
14. Do not reuse any drained power steering fluid.



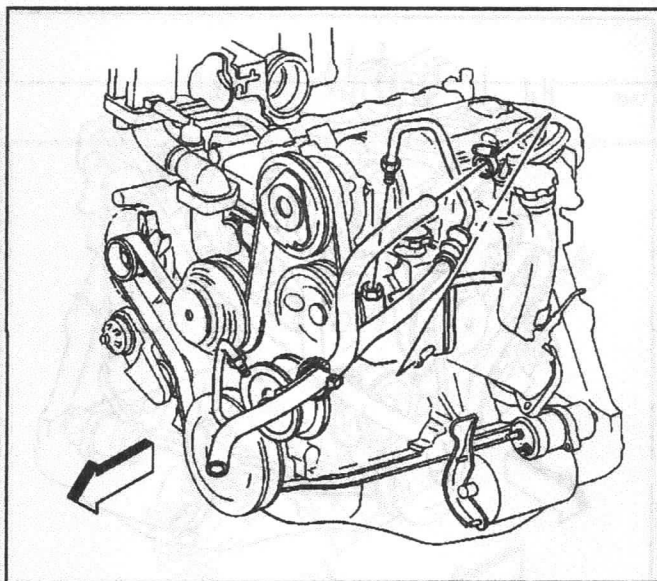
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### Power Steering Pressure Hose Replacement (2.2L)

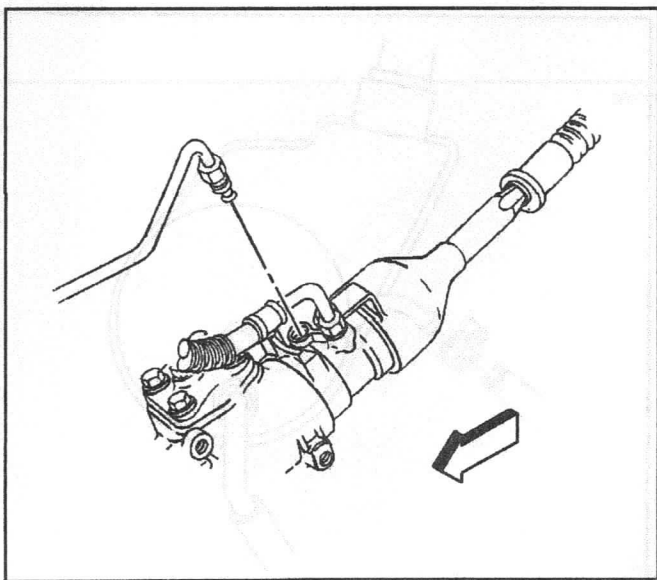
#### Removal Procedure

**Notice:** Do not start the vehicle with any power steering gear inlet or outlet hoses disconnected. When disconnected, plug or cap all openings of components. Failure to do so could result in contamination or loss of power steering fluid and damage to the system.

1. Remove the air cleaner assembly. Refer to *Air Cleaner Intake Duct Replacement* in Engine Controls 2.2L.
2. Install a drain pan under the vehicle.
3. Disconnect the power steering gear pressure hose from the power steering pump.
4. Disconnect the power steering gear pressure hose from the power steering gear.
5. Remove the power steering gear pressure hose from the vehicle.



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