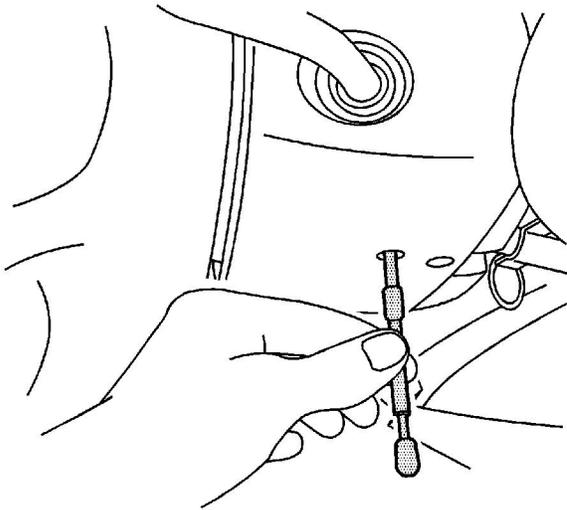


# Steering Gear Replacement

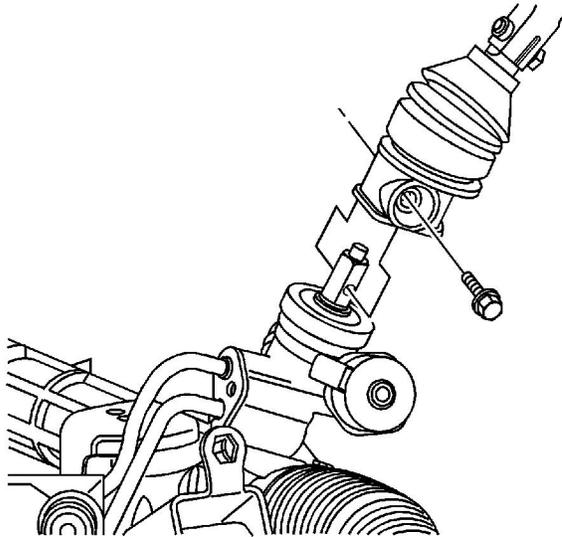
## Tools Required

- [J 24319-B](#) Steering Linkage and Tie Rod Puller
- [J 42640](#) Steering Column Anti-Rotation Pin

## Removal Procedure



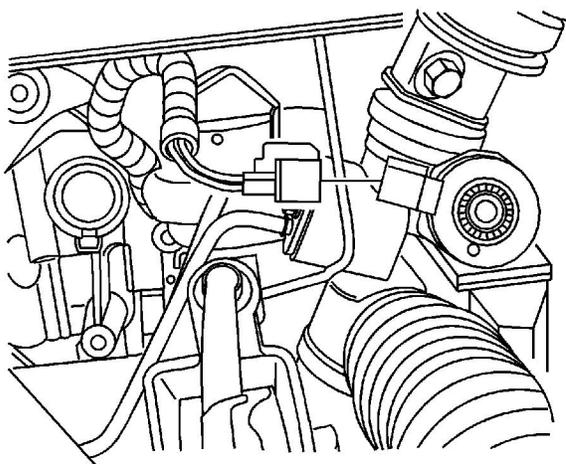
1. Install the [J 42640](#) to the steering column.
2. Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#) .
3. Remove the front tires and wheels. Refer to [Tire and Wheel Removal and Installation](#) .
4. Remove the front air deflector. Refer to [Front Air Deflector Replacement](#) .



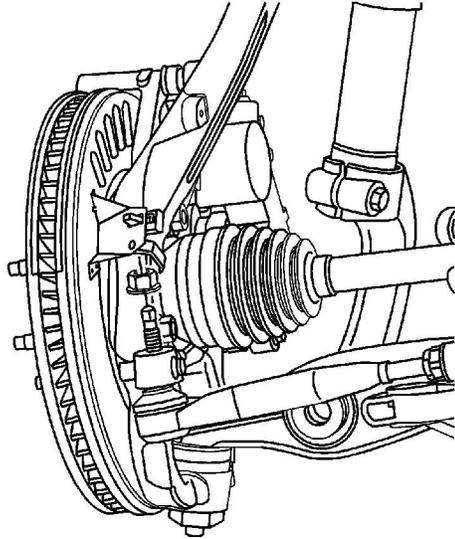
**Caution:** Failure to disconnect the intermediate shaft from the rack and pinion stub shaft can result in damage to the steering gear and/or intermediate shaft. This damage can cause loss of steering control which could result in personal injury.

**Notice:** 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.

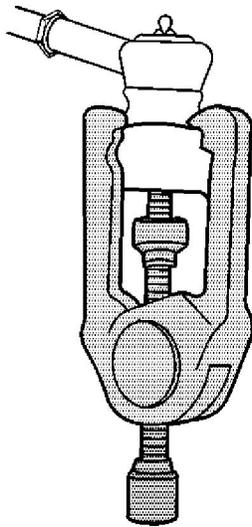
5. Remove the intermediate shaft lower pinch bolt.
6. Disconnect the intermediate shaft from the power steering gear.



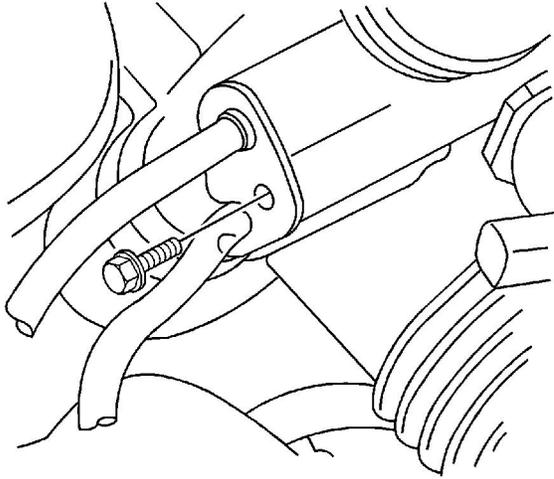
7. Disconnect the variable effort steering harness connector.



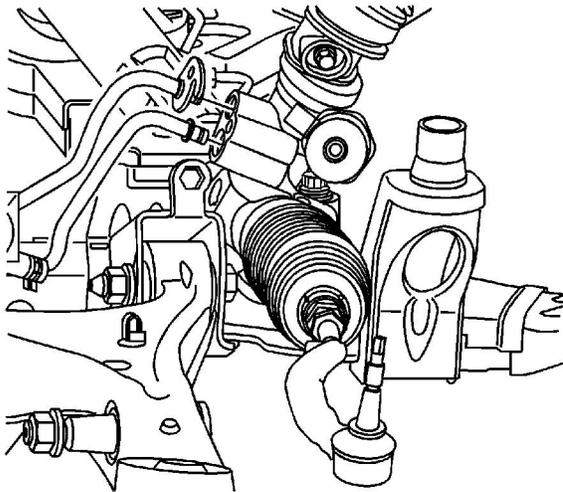
8. Remove the outer tie rod retaining nuts.



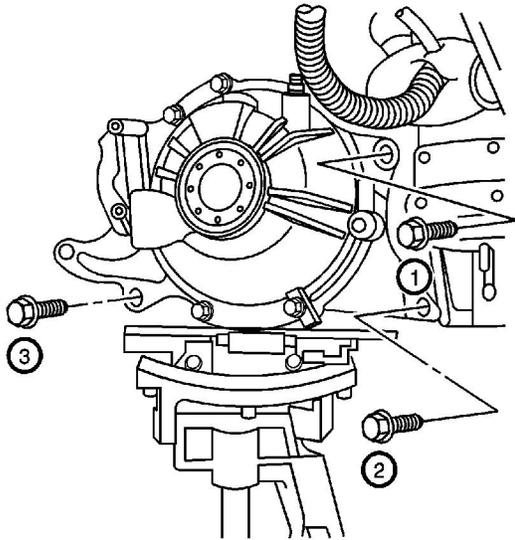
9. Using the [J 24319-B](#) , separate the outer tie rod from the steering knuckles.
10. Place a drain pan under the vehicle.



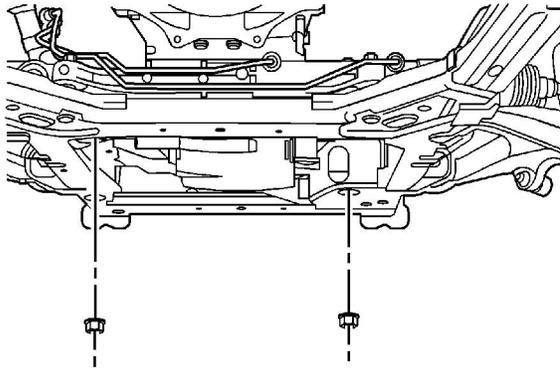
11. Remove the power steering hoses to power steering gear retaining bolt.



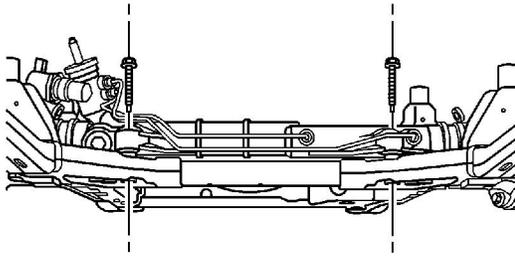
12. Disconnect the power steering hoses from the power steering gear.
13. If equipped with the 4.6L (LH2) engine, perform the following steps:
  - 13.1. Disconnect the left brake line from the brake hose.
  - 13.2. Plug the brake line.
  - 13.3. Carefully position the brake line to the side.



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



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

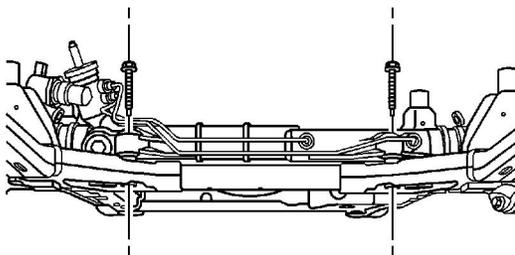


17. Remove the power steering gear mounting bolts.
18. If equipped with the 4.6L (LH2) engine, remove the left rearward lower control arm to frame mounting nut and bolt.
19. Remove the power steering gear through the left wheel opening.

## **Installation Procedure**

1. Install the power steering gear through the left wheel opening.
2. If equipped with the 4.6L (LH2) engine, install the left rearward lower control arm to frame mounting bolt and nut.

**Notice:** Refer to [Fastener Notice](#) in the Preface section.



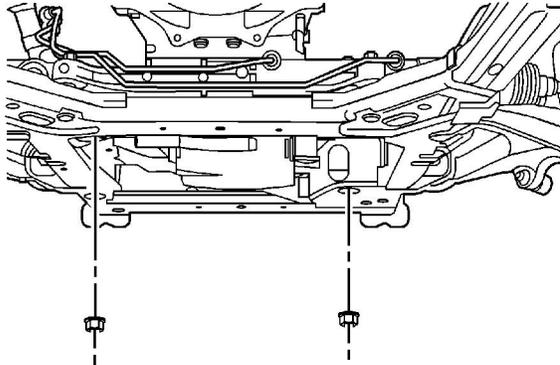


3. Install the power steering gear retaining bolts.

**Tighten**

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

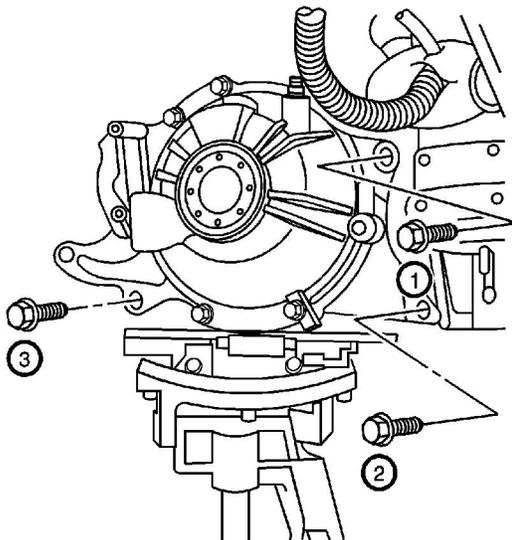
4. If equipped with AWD, lower the differential housing.



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).

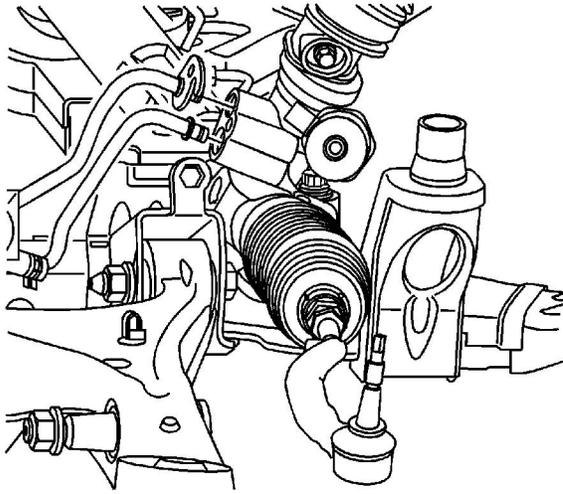




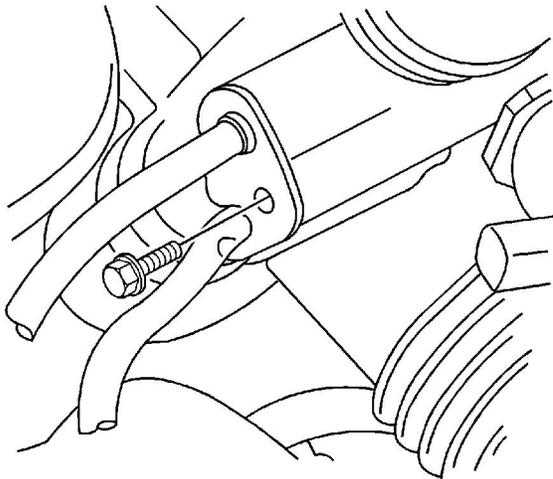
6. If equipped with AWD, remove the support from the bottom of the differential housing.
7. If equipped with the 4.6L (LH2) engine, install the left brake line to the brake hose.

### Tighten

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



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

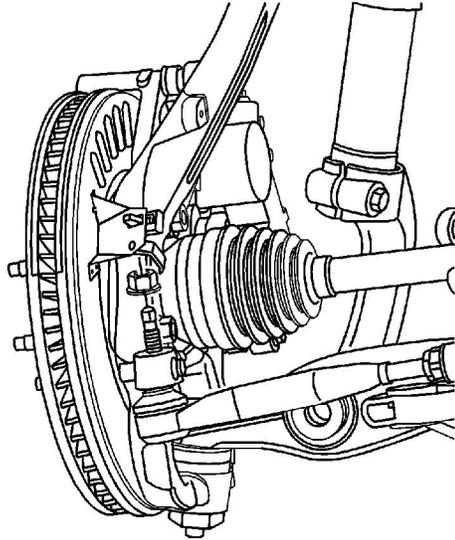


9. Install the power steering hoses to the power steering gear retaining bolt.

**Tighten**

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

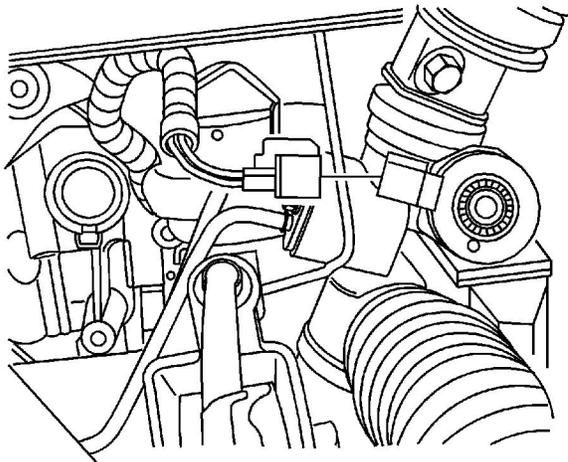
10. Remove the drain pan from under the vehicle.



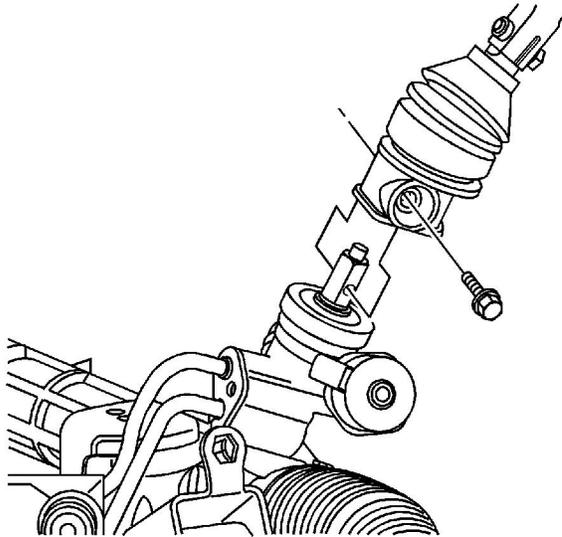
11. Install the outer tie rod to the steering knuckles.

**Tighten**

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



12. Connect the variable effort steering harness connector.

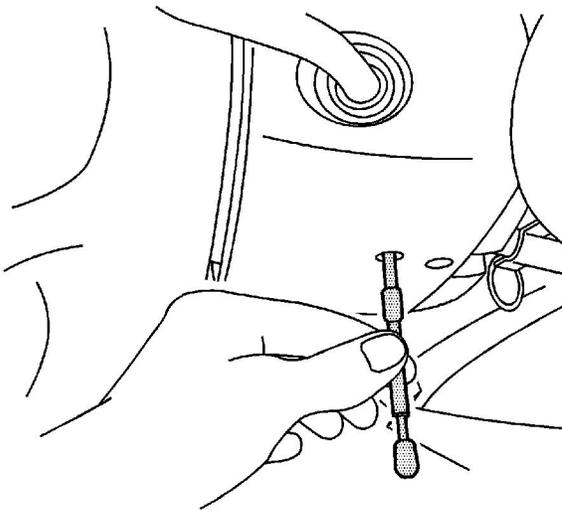


13. Connect the intermediate shaft to the power steering gear.
14. Install the intermediate shaft lower pinch bolt.

### **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](#) .
16. Lower the vehicle.



17. Remove the [J 42640](#) from the steering column.
18. Bleed the power steering system. Refer to [Power Steering System Bleeding](#) .
19. Adjust the front toe. Refer to [Front Toe Adjustment](#) .