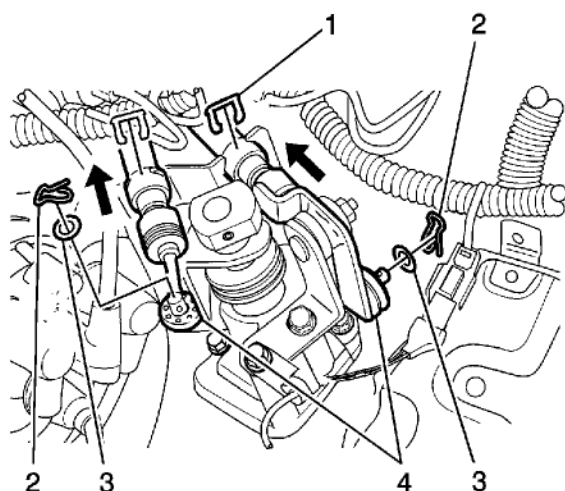


Shift Control Cable Replacement

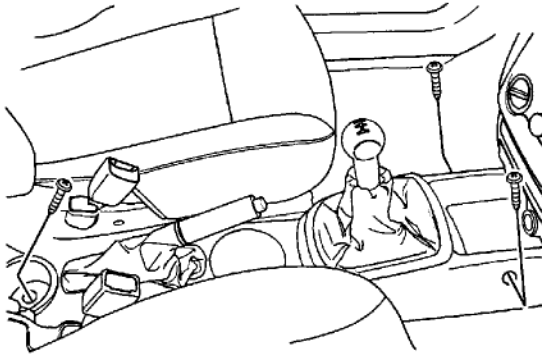
Removal Procedure



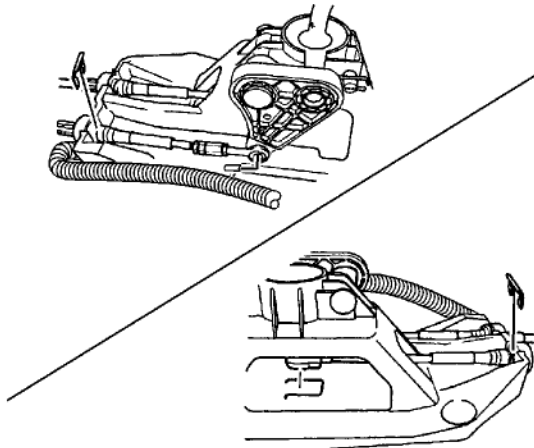
1. Remove the air hose between the air cleaner and throttle body.

Warning: Refer to [Batteries Produce Explosive Gases Warning](#) in the Preface section.

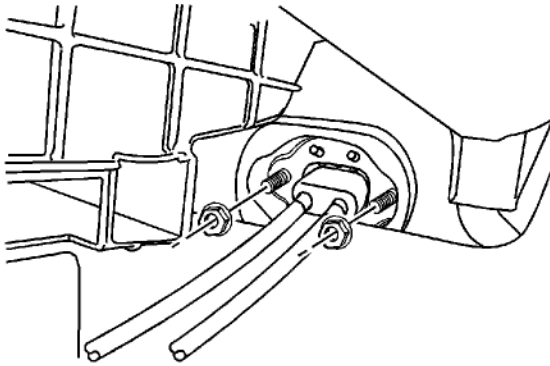
2. Remove the battery from the vehicle.
3. Remove the transaxle side select and shift control cable pins (1) and the washers (2).
4. Disconnect the select and shift control cable (3).
5. Remove the cable E-rings (4).
6. Disconnect the cables from the cable bracket.



7. Remove the floor console. Refer to [Front Floor Console Replacement](#).
8. Move the floor carpet to gain access to the gear shift cable.

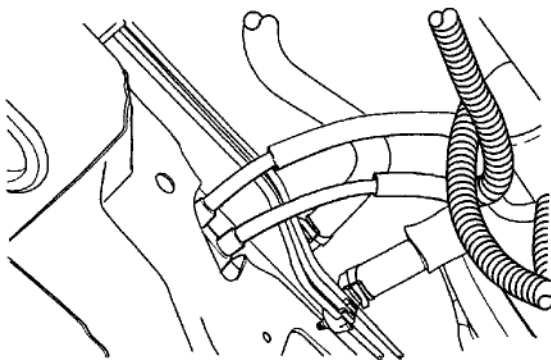


9. Remove the gear shift lever side select and shift control cable U-clip.
10. Remove the eye ring.
11. Remove the select control cable E-ring.
12. Disconnect the select control cable.
13. Remove the shift control cable pin and cable E-ring.
14. Remove the shift control cable.

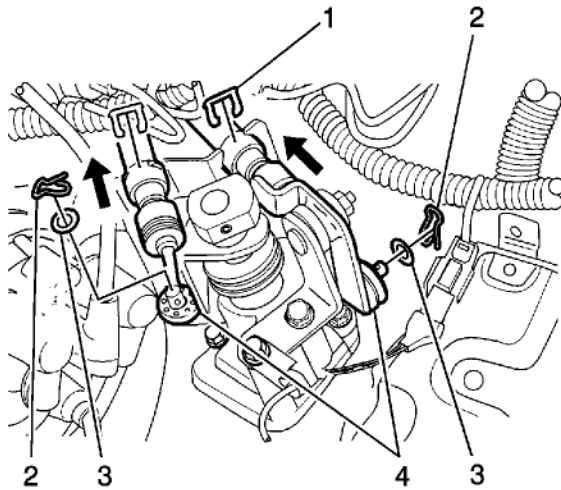


15. Remove the select and shift control cable nuts and pull the cables out in the passenger room.

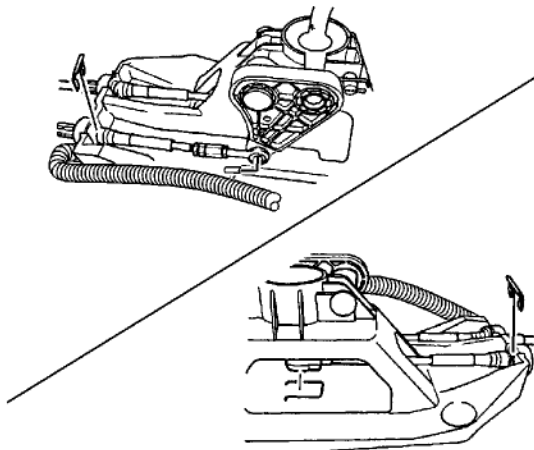
Installation Procedure



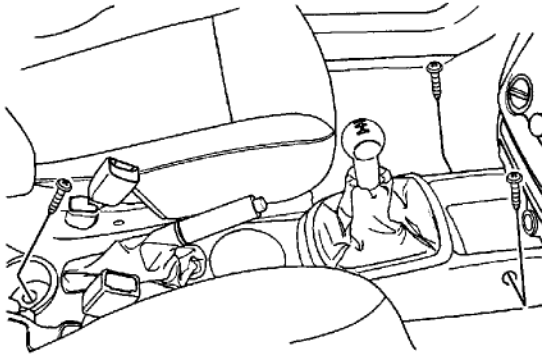
1. Install the cables toward the engine compartment through the dash panel.
2. Position the cables on the select and the shift lever.



3. Connect the transaxle side select and shift control cables (4).
4. Connect the gear shift lever side shift control cable.



5. Insert the gear shift select control cable eye ring to the select arm pin.
6. Install the gear shift selector lever control cable clip.
7. Install the gear shift select control cable to the gear shift lever bracket with the E-ring.
8. Insert a screwdriver to the select arm adjustment hole to prevent the movement of the gear shift lever in NEUTRAL.
9. Connect the gear shift lever side select control cable.



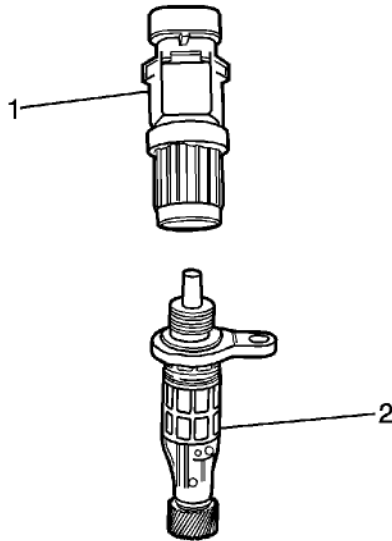
10. Install the floor console. Refer to [Front Floor Console Replacement](#).

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

11. Install the gear cable adjust nut and tighten to **10 N·m (89 lb in)**.
12. Install the battery.
13. Install the air hose to the air cleaner and throttle body.

Speedometer Driven Gear Replacement

Removal Procedure

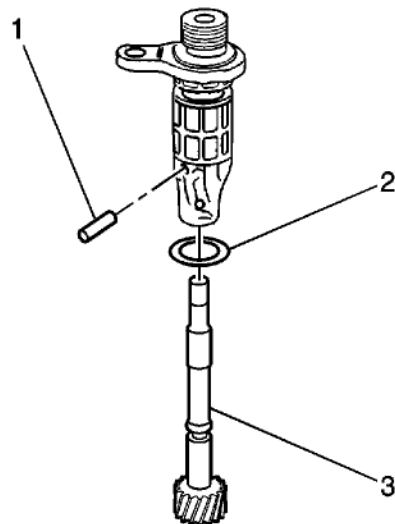


1. Disconnect the vehicle speed sensor (VSS) connector (1).

Warning: In order to avoid being burned, do not service the exhaust system while it is still hot. Service the system when it is cool.

2. Remove the bolt and the speedometer driven gear assembly.
3. Remove the VSS (1) from the speedometer driven gear (2).

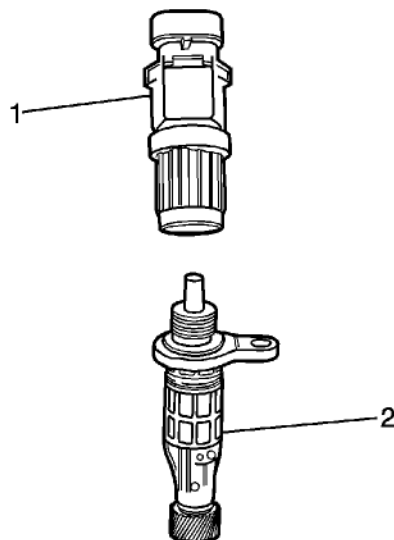
Inspection Procedure



1. Remove the O-ring (2) from the speedometer driven gear housing.
2. Remove the driven gear pin (1) and disconnect the driven gear (3).
3. Inspect for a damaged or torn O-ring.
4. Inspect for a worn or damaged tooth on the driven gear.

Installation Procedure

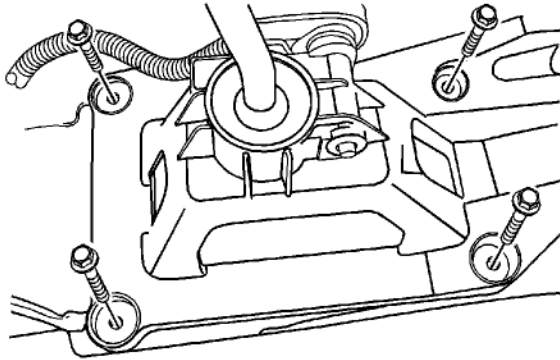
Caution: Refer to [Fastener Caution](#) in the Preface section.



1. Install the speedometer driven gear assembly (2) to the transaxle housing mounting bolt and tighten to **7 N·m (62 lb in)**.
2. Connect the VSS connector.

Gearshift Control Lever Replacement

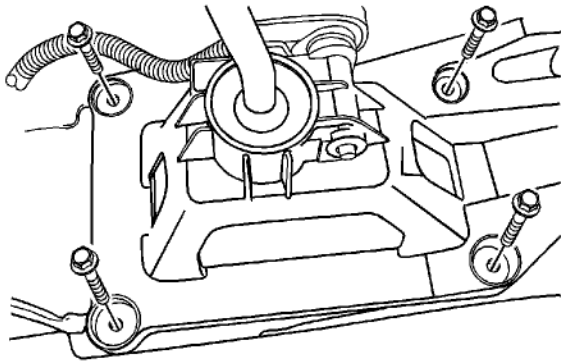
Removal Procedure



1. Remove the floor console. Refer to [Front Floor Console Replacement](#).
2. Disconnect the select and shift control cable. Refer to [Shift Control Cable Replacement](#).
3. Remove the gear shift control lever bolts (1) and assembly.

Installation Procedure

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



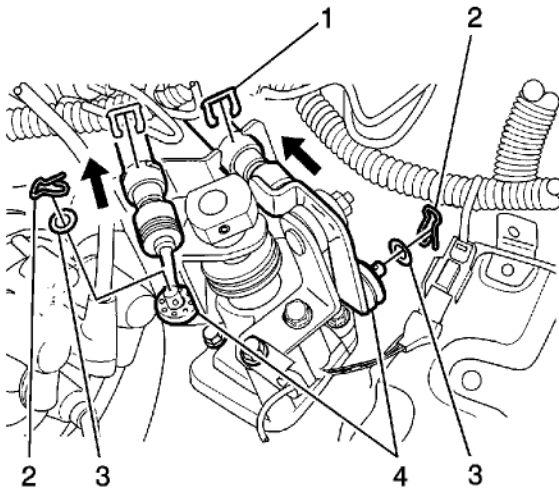
1. Install the gear shift control lever assembly and bolts (1) and tighten to **6 N·m (53 lb in)**.
2. Adjust the select cables. Refer to [Shift Control Cable Replacement](#).
3. Connect the select and shift control cable. Refer to [Shift Control Cable Replacement](#).
4. Install the floor console. Refer to [Front Floor Console Replacement](#).

Transmission Replacement

Special Tools

[J 28467-B](#) (DW 117) Universal Engine Support Fixture

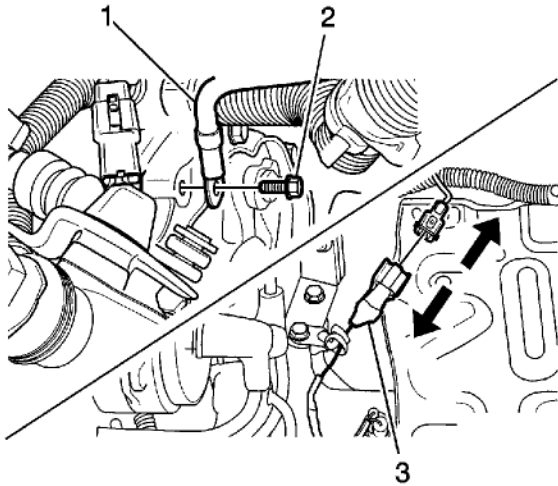
Removal Procedure



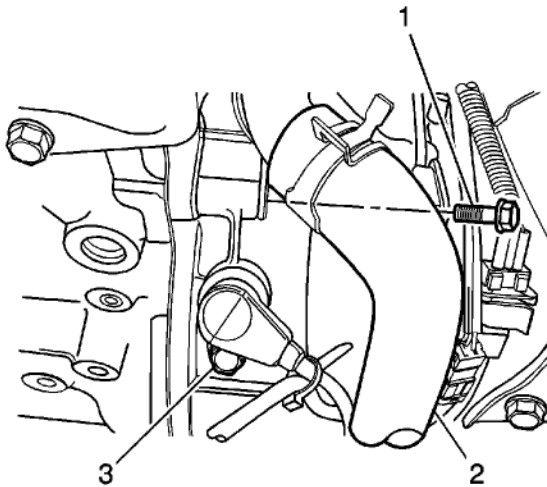
1. Remove the air cleaner assembly.

Warning: Refer to [Batteries Produce Explosive Gases Warning](#) in the Preface section.

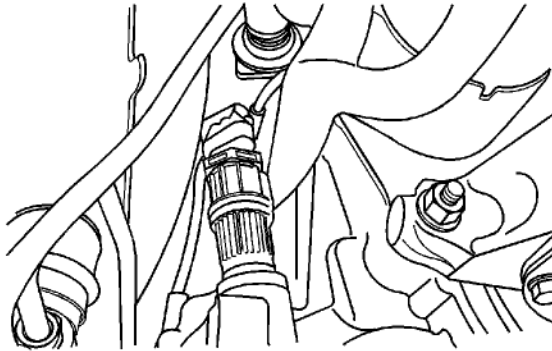
2. Remove the battery and battery tray from the vehicle.
3. Remove the shift cable pins (2).
4. Remove the washers (3).
5. Disconnect the select and the shift cable (4).
6. Remove the cable E-rings (1).
7. Disconnect the shift cables from the cable bracket.



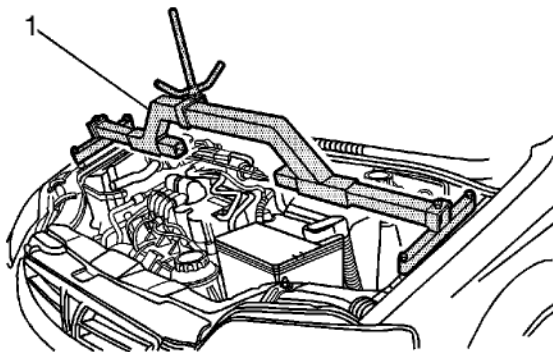
8. Remove the engine wiring harness bending strap.
9. Remove the ground wire bolt (2).
10. Disconnect the ground wire (1).
11. Disconnect the backup lamp switch connector (3).



12. Remove the radiator lower hose bolts (1).
13. Disconnect the radiator lower hose (2).
14. Remove the crankshaft position (CKP) sensor bolt (3).
15. Disconnect the CKP sensor connector and remove the CKP sensor.

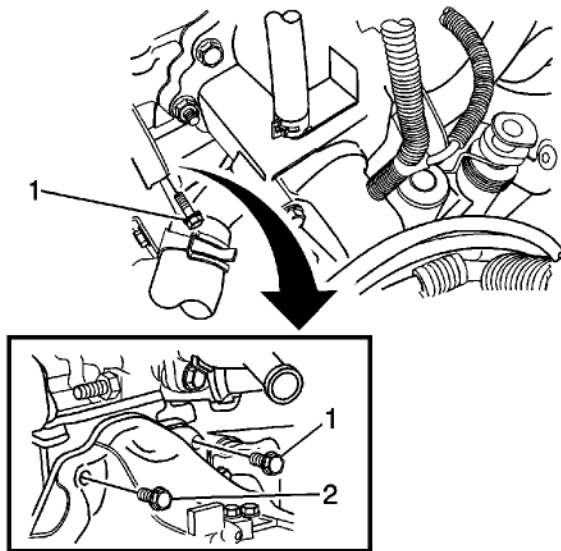


16. Disconnect the vehicle speed sensor (VSS) connector.
17. Remove the VSS.
18. Remove the starter motor.

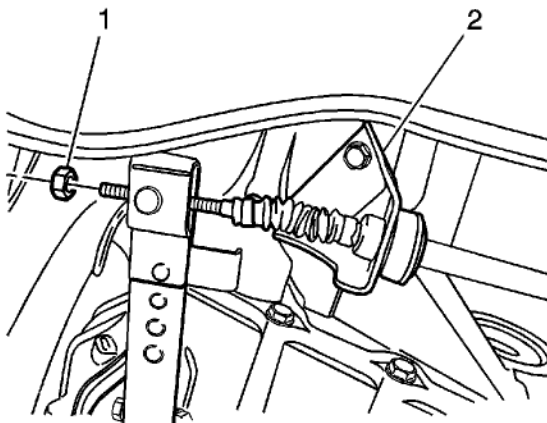


Warning: While engine is operating, the exhaust system will become extremely hot. To prevent burns avoid contacting a hot exhaust system.

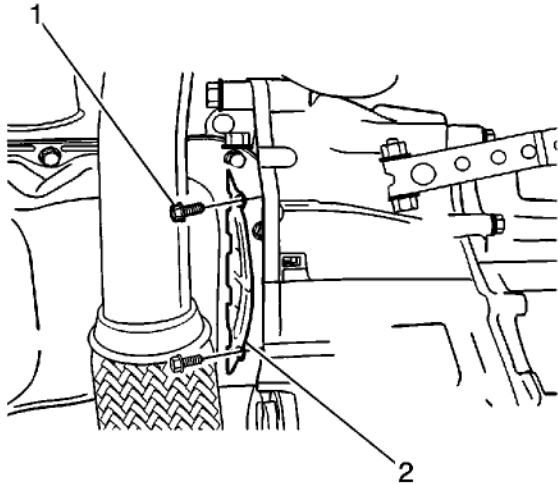
19. Install [J 28467-B](#) (1).



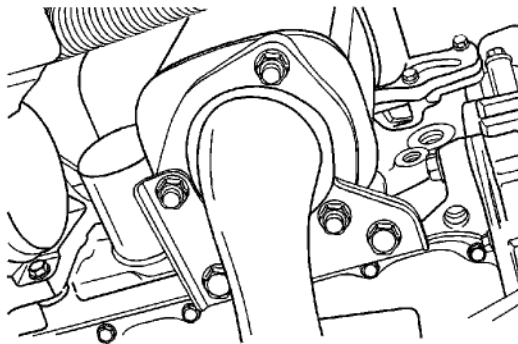
20. Remove the transaxle upper exhaust manifold side bolt (1) and the thermostat housing side bolt (2).



21. Drain the transaxle fluid.
22. Remove the cable adjust nut (1).
23. Disconnect the cable from the wire clip.
24. Disconnect the clutch cable from the transaxle mount hole (2).

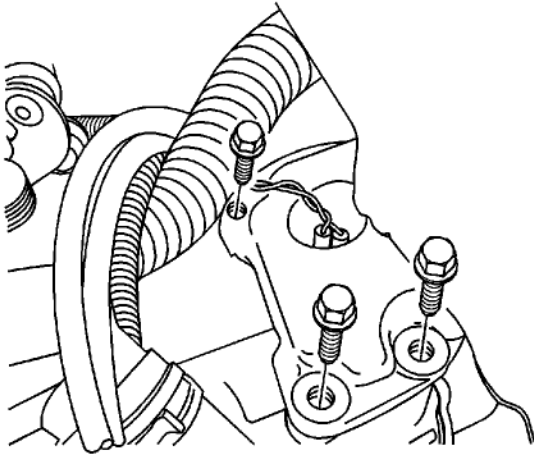


25. Remove the front under longitudinal frames and stabilizer. Refer to [Stabilizer Shaft Replacement](#).
26. Remove the drive axle, only from the transaxle side. Refer to [Front Drive Axle Inner Shaft Replacement](#).
27. Remove the clutch housing lower plate bolts (1) and lower plate (2).

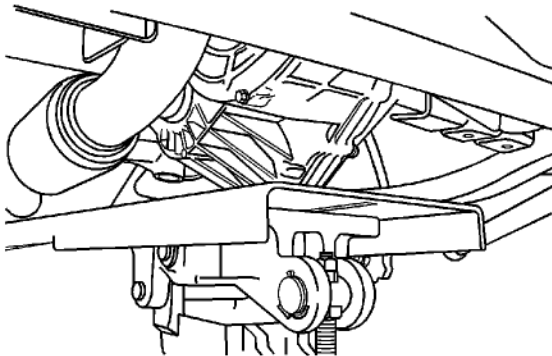


Warning: While engine is operating, the exhaust system will become extremely hot. To prevent burns avoid contacting a hot exhaust system.

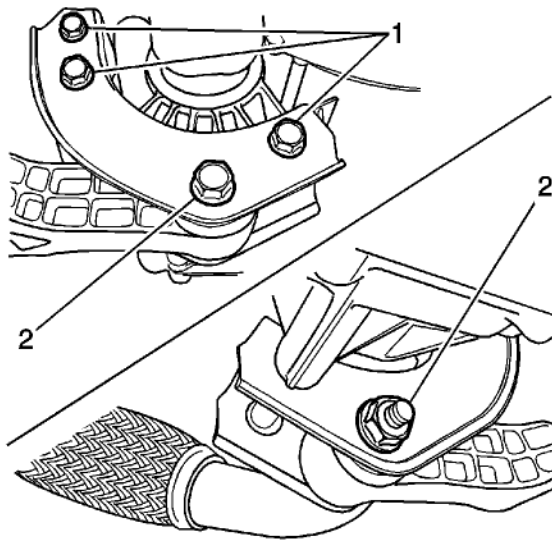
28. Remove the front exhaust pipe nuts from the exhaust manifold side.
29. Remove the gasket and separate the exhaust manifold pipe.
30. Remove the front exhaust pipe.



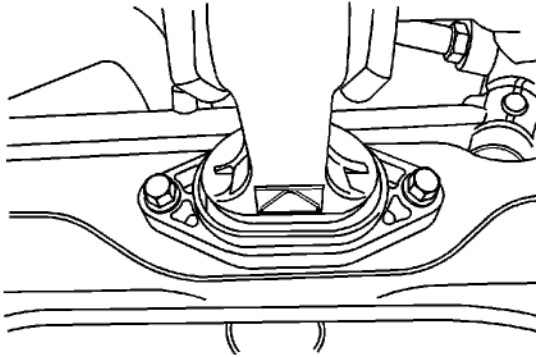
31. Remove the transaxle mounting bracket bolts.



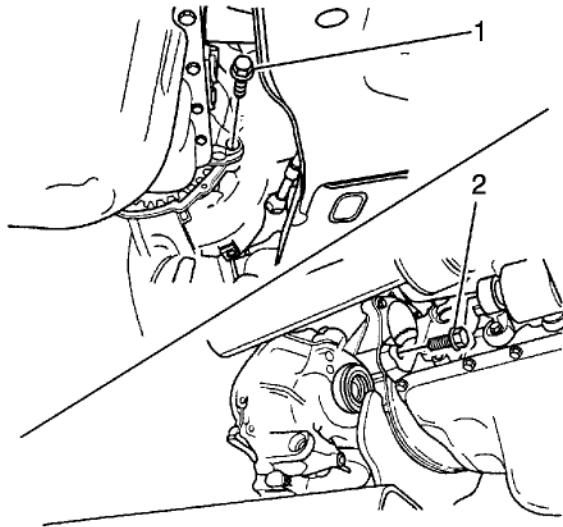
32. Support the transaxle with a transaxle support jack.



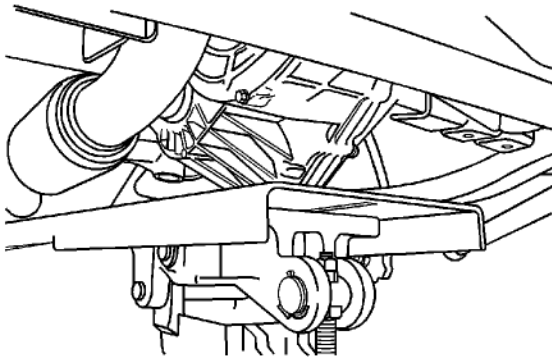
33. Remove the damping block connection nut and bolt (2).
34. Remove the rear mounting bracket bolts (1).
35. Remove the rear mounting bracket from the transaxle.



36. Remove the rear damping block retaining bolts.
37. Remove the rear damping block.



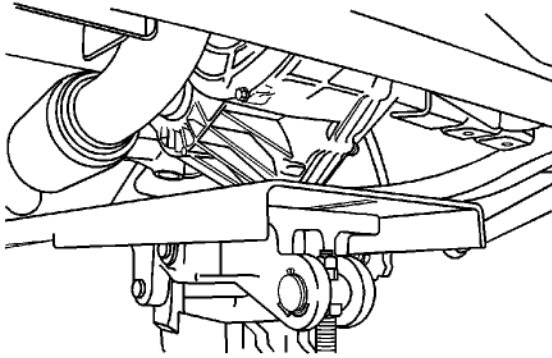
38. Remove the transaxle lower bolts (1, 2).



Caution: Support the engine in the normal position when removing the transaxle. Damage to related parts can occur.

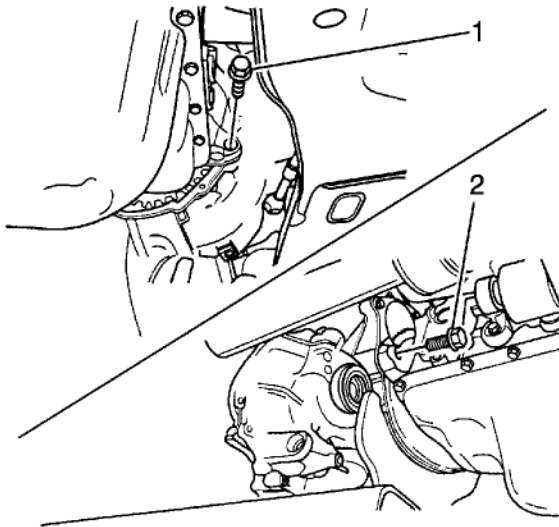
- 39. Remove the transaxle.
- 40. Slide the transaxle sideways from the engine block.
- 41. Lower the transaxle.

Installation Procedure

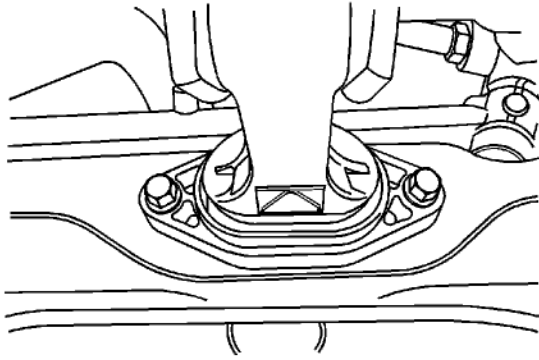


1. Support the transaxle with a transaxle support jack.
2. Install the transaxle by inserting the transaxle input shaft into the clutch disc and sliding the transaxle sideways into the engine block.

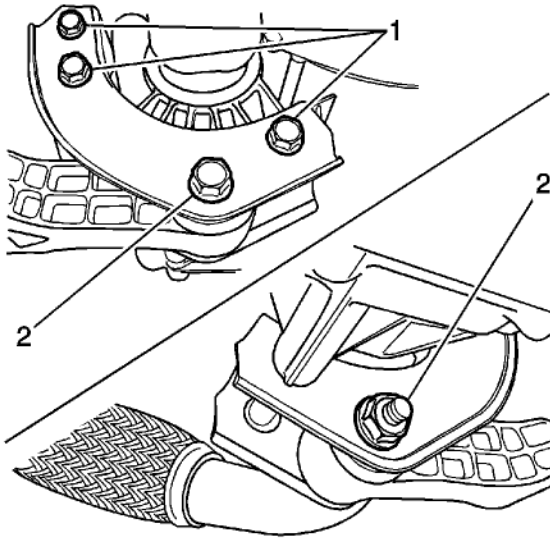
Caution: Refer to [Fastener Caution](#) in the Preface section.



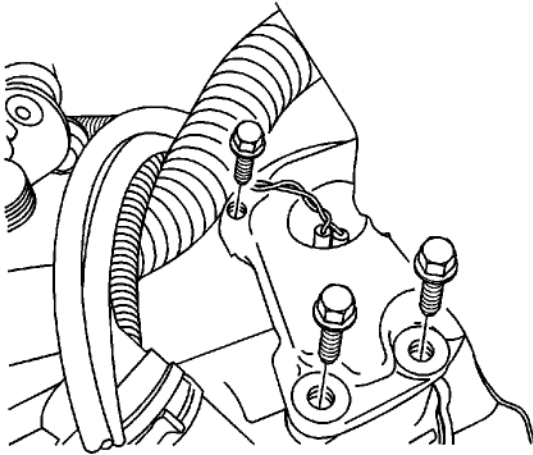
3. Install the transaxle lower bolts (1, 2) and tighten to **60 N·m (44 lb ft)**.



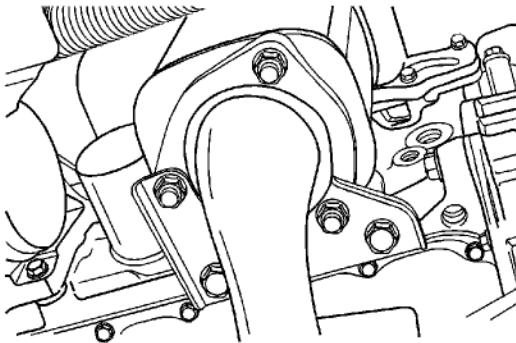
4. Install the rear damping block retaining bolts and tighten to **55 N·m (41 lb ft)**.



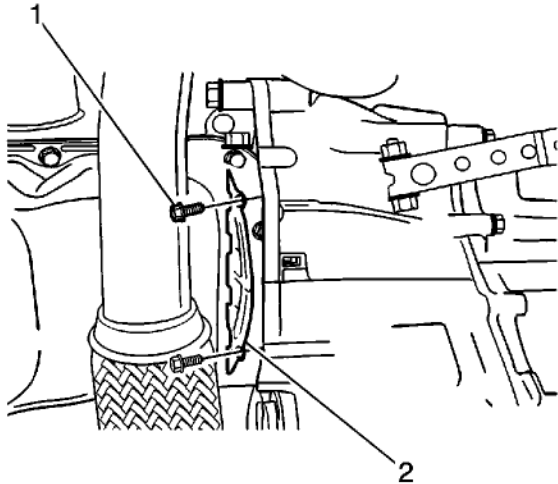
5. Install the bracket.
6. Install the rear mounting bracket bolts (1) and tighten to **60 N·m (44 lb ft)**.
7. Install the damping block connection nut and tighten to **82 N·m (61 lb ft)**.



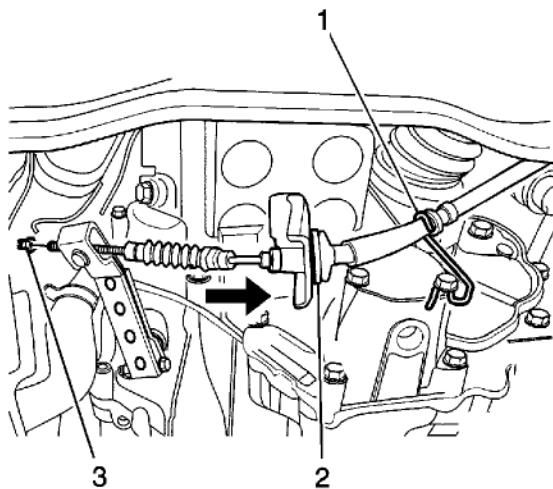
8. Install the rear transaxle mounting bracket bolts and tighten to **50 N·m (37 lb ft)**.



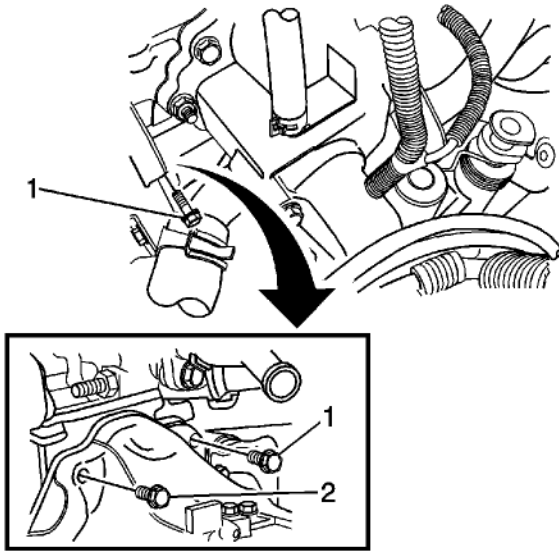
9. Install the front exhaust pipe nuts and tighten to **30 N·m (22 lb ft)**.



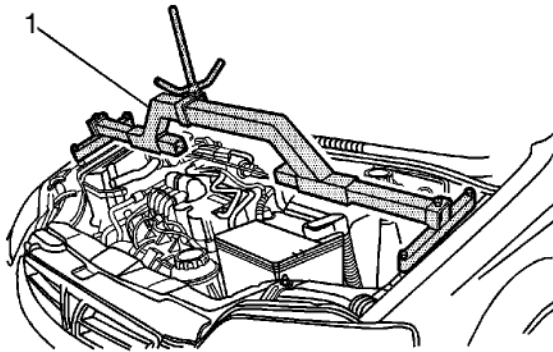
10. Install the clutch housing lower plate (2).
11. Install the clutch housing lower plate bolts (1) and tighten to **10 N·m (89 lb in)**.
12. Install the drive axle. Refer to [Front Drive Axle Inner Shaft Replacement](#).
13. Install the front under longitudinal frames and stabilizer. Refer to [Stabilizer Shaft Replacement](#).



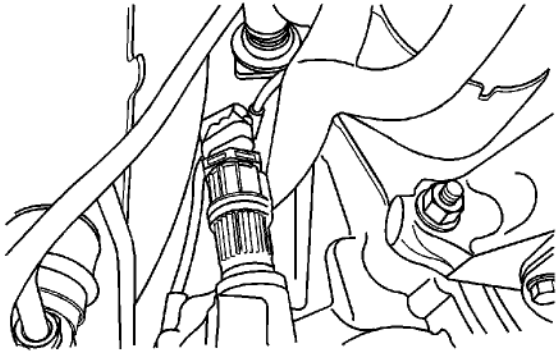
14. Install the clutch cable to the transaxle mount (2).
15. Install the cable to the wire clip (1).
16. Install the clutch cable adjusting nut (3).



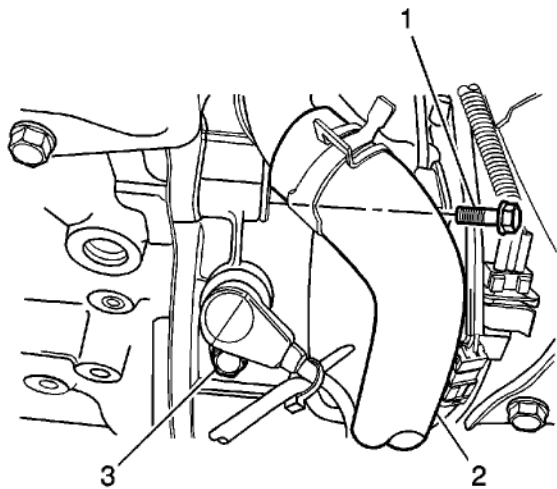
17. Install the transaxle upper bolts (1, 2) and tighten to **60 N·m (44 lb ft)**.



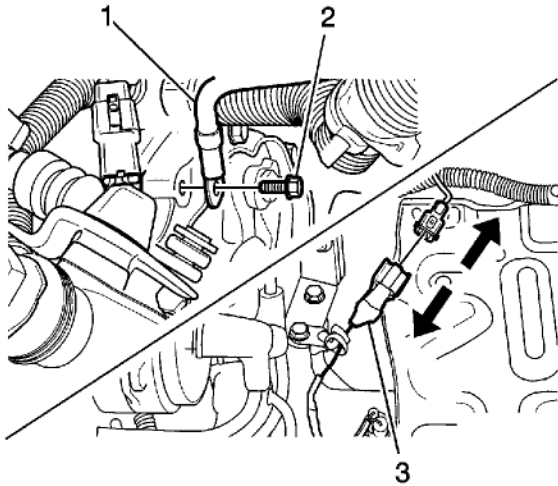
18. Install the starter motor. Refer to [Starter Replacement](#).
19. Remove [J 28467-B](#) (1).



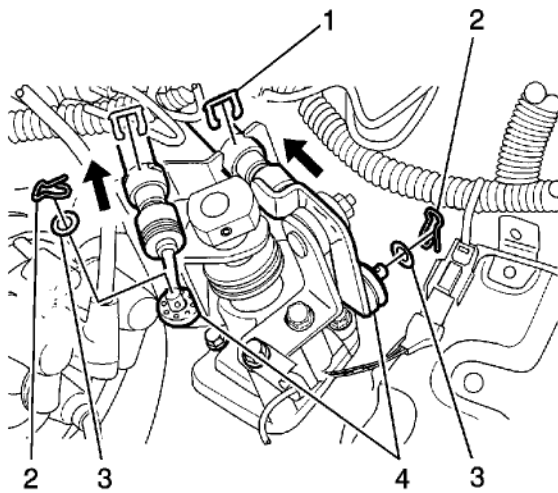
20. Install the VSS.
21. Install the VSS mounting bolt and tighten to **6 N·m (53 lb in)**.
22. Connect the VSS connector.



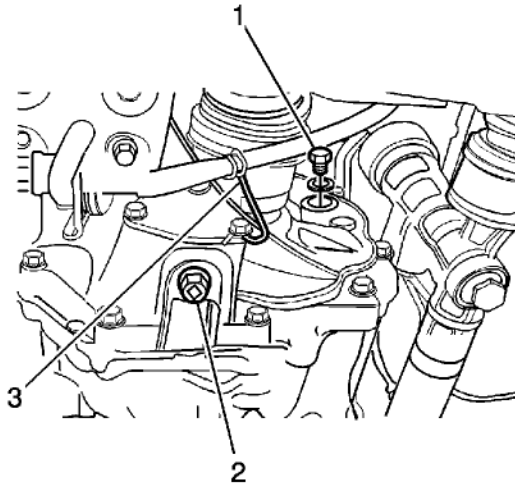
23. Install the radiator lower hose.
24. Install the lower radiator hose bolt and tighten to **12 N·m (106 lb in)**.
25. Install the CKP sensor and bolt (3) and tighten to **7 N·m (62 lb in)**.



26. Connect the ground wire (1) and the backup lamp switch connector (3).
27. Install the engine wiring harness bending strap.
28. Install the engine wiring harness bending strap bolt and tighten to **13 N·m (10 lb ft)**.



29. Connect the shift cables to the cable bracket.
30. Install the cable E-rings (1).
31. Connect the select and shift cable (4).
32. Install the washers (3).
33. Install the shift cable pins (2).



34. Install the drain plug (2) and tighten to **28 N·m (21 lb ft)**.
35. Remove the oil level plug (1).
36. Fill recommended fluid to the proper level.

Specification

- The classification is 75W-85 (GL-4).
 - The capacity is 2.1 liters (2.21 quarts).
37. Install the oil level plug (1) and tighten to **28 N·m (21 lb ft)**.
 38. Install the air cleaner assembly.
 39. Adjust the clutch cable.

Warning: Refer to [Batteries Produce Explosive Gases Warning](#) in the Preface section.

40. Install the battery and battery tray in the vehicle.