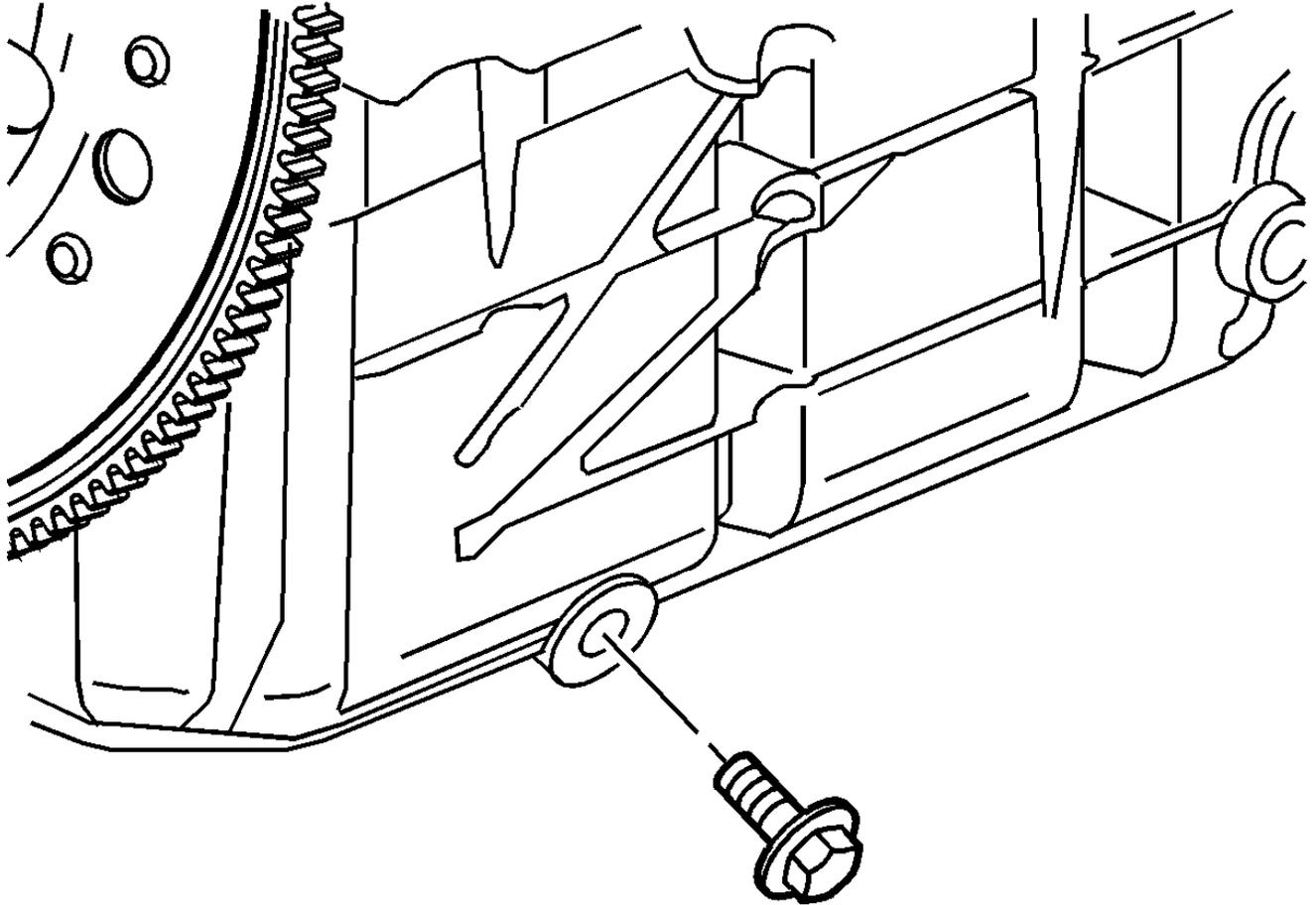


Oil Pan Replacement**Removal Procedure**

Important: The vehicle is equipped with a automatic transaxle to oil pan lower brace. The brace boss on the transaxle may interfere with oil pan removal.



1. Disconnect the negative battery cable. Refer to [Battery Negative Cable Disconnection and Connection](#).
2. Remove the drive belt. Refer to [Drive Belt Replacement](#).
3. Remove the air cleaner inlet duct. Refer to [Air Cleaner Inlet Duct Replacement](#).
4. Install the engine support fixture. Refer to [Engine Support Fixture](#).
5. Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#).
6. Place a suitable drain pan under the oil pan drain plug.
7. Remove the oil pan drain plug and drain the engine oil from the crankcase.

Notice: Refer to [Fastener Notice](#).

8. Reinstall the [oil pan drain plug](#).

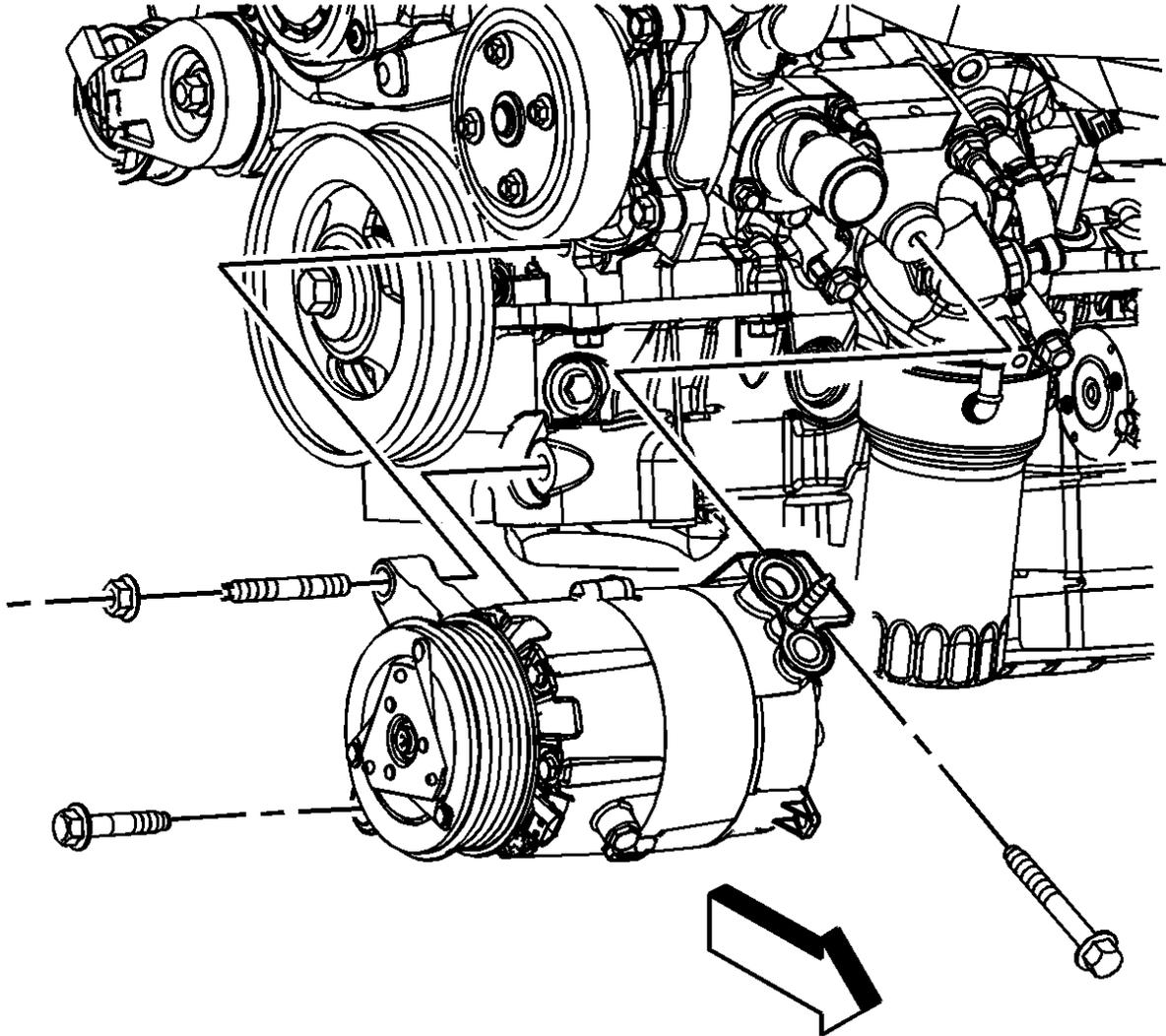
Tighten:

Tighten the drain plug to 26 [n-m] (19 lb ft).

9. Remove the right front splash shield. Refer to [Engine Splash Shield Replacement - Right Side](#).

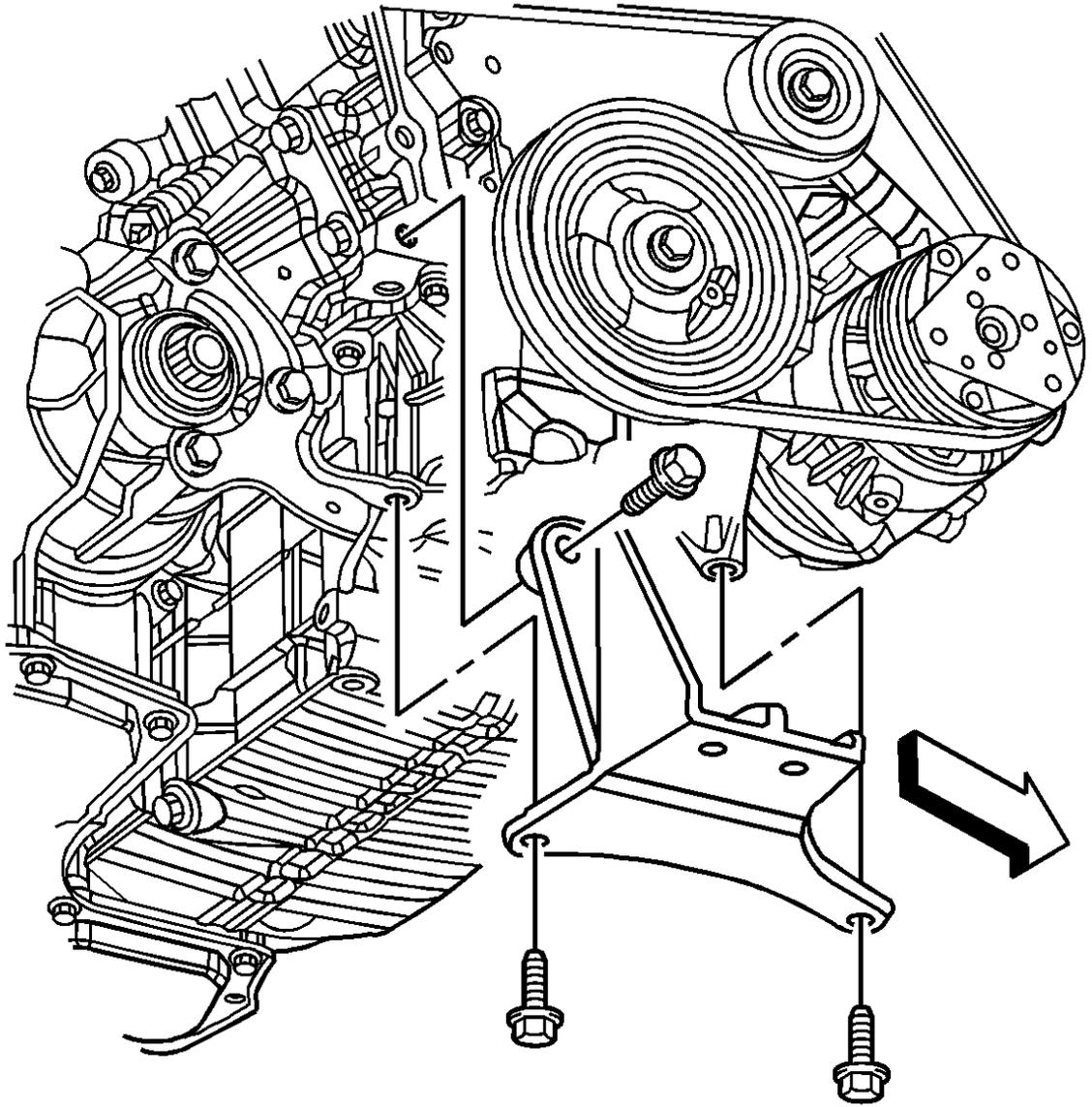
10. Remove the starter. Refer to [Starter Replacement \(LE5\)](#)[Starter Replacement \(LZ4\)](#)[Starter Replacement \(LZ9\)](#)[Starter Replacement \(LY7\)](#).

11. Remove the oil filter adapter. Refer to [Oil Filter Adapter and Bypass Valve Assembly Replacement](#).

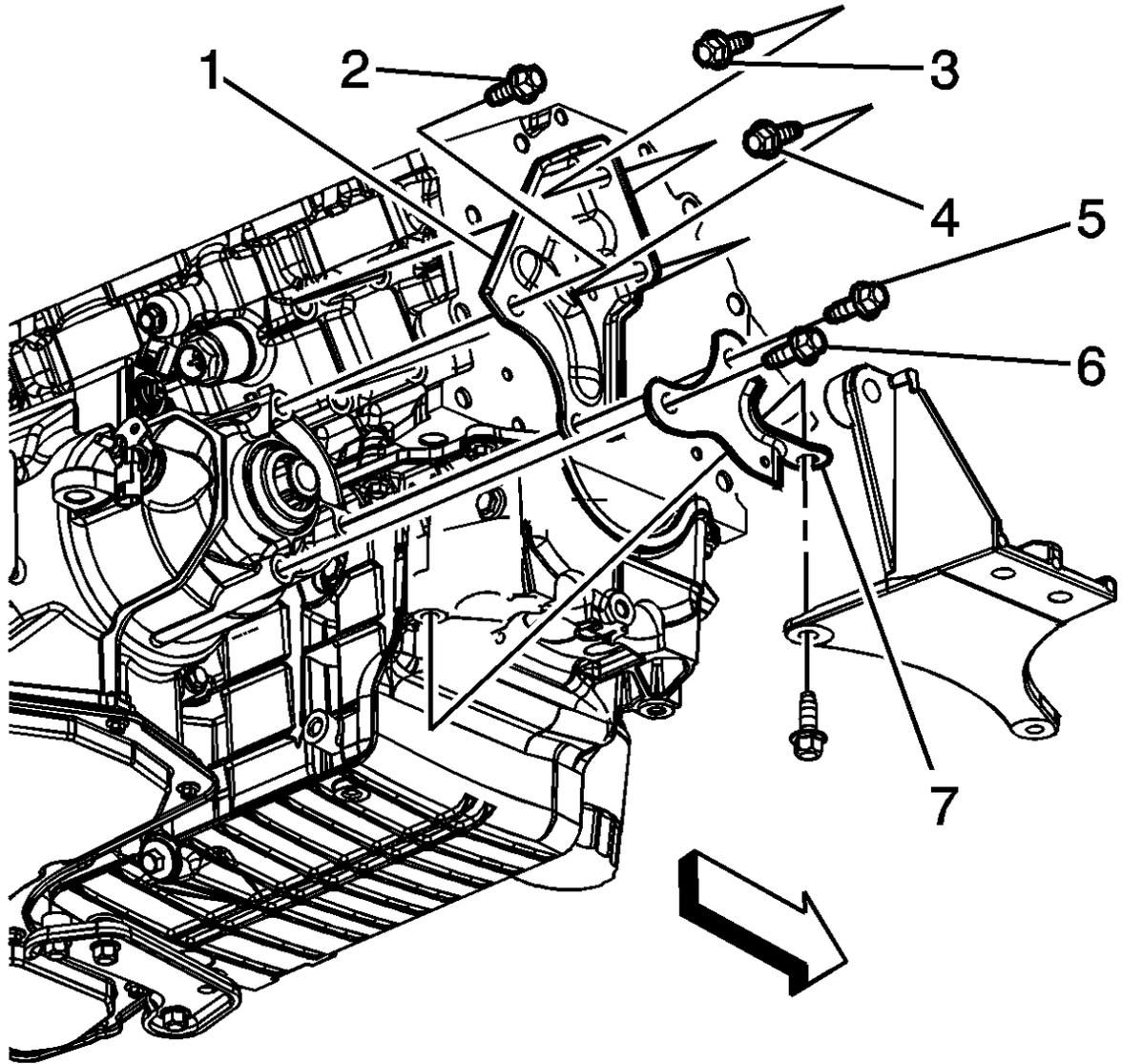


12. Remove the air conditioning (A/C) compressor bolts/nut and position the compressor aside.

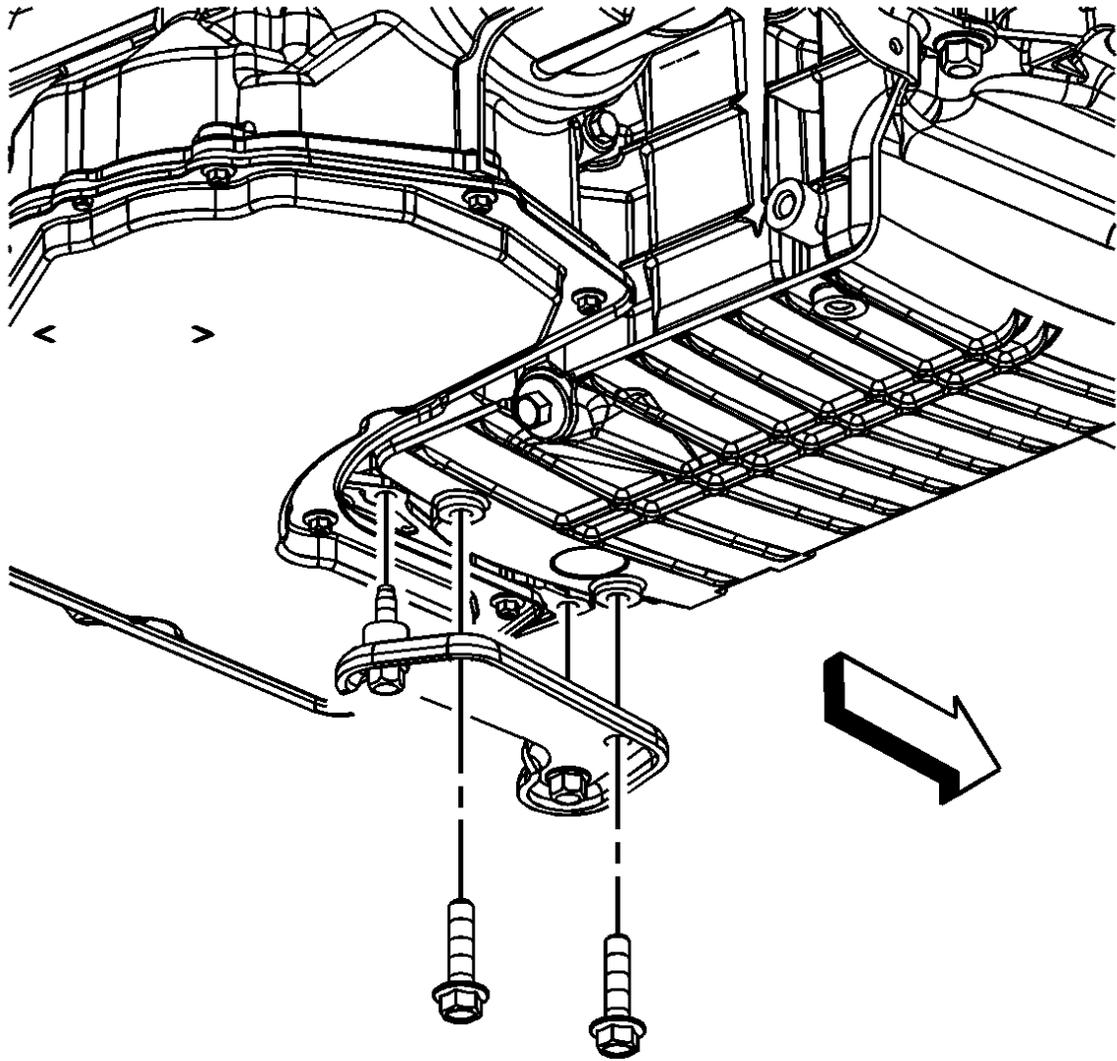
13. Remove the catalytic converters. Refer to [Catalytic Converter Replacement - Left Side \(LZ4\)](#)[Catalytic Converter Replacement - Left Side \(LZ9\)](#)[Catalytic Converter Replacement - Left Side \(LY7\)](#) and [Catalytic Converter Replacement - Right Side \(LZ4\)](#)[Catalytic Converter Replacement - Right Side \(LZ9 w/RPO MT2\)](#)[Catalytic Converter Replacement - Right Side \(LZ9 w/RPO M15\)](#)[Catalytic Converter Replacement - Right Side \(LY7\)](#).



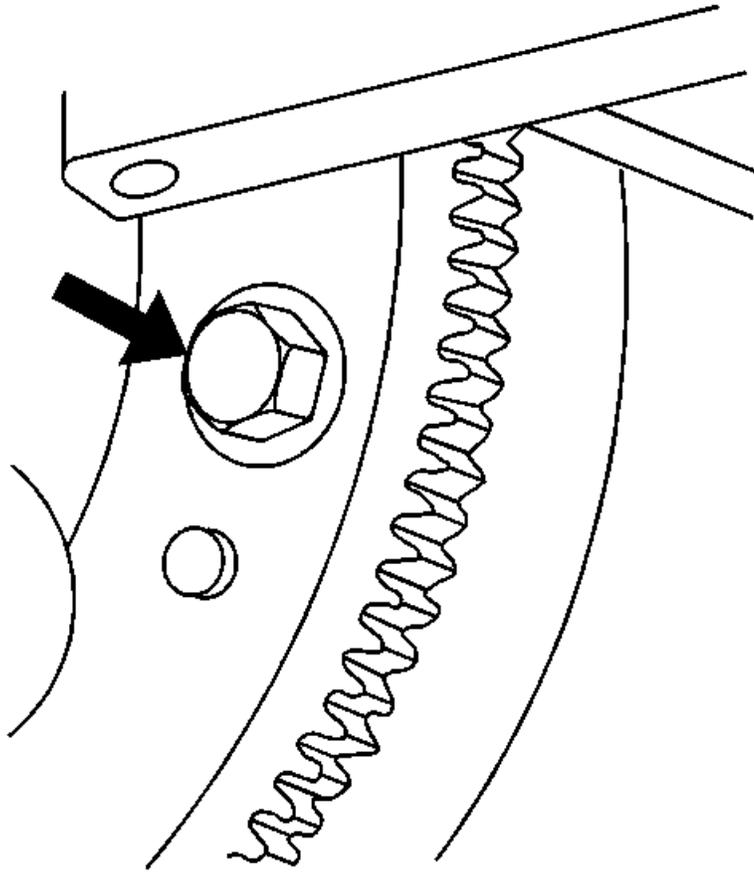
14. Remove the engine mount bracket bolts and bracket.



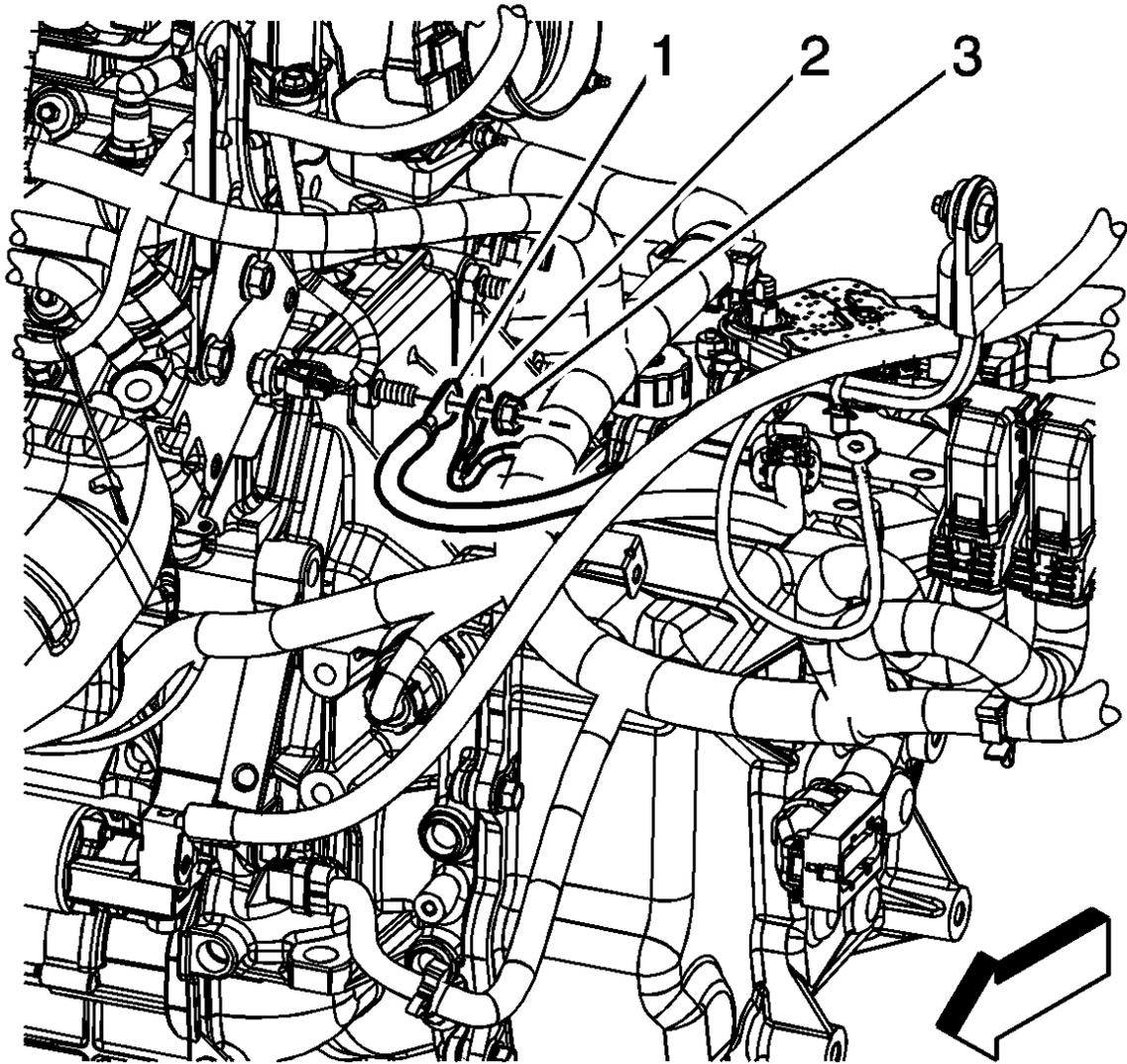
15. Remove the transaxle brace bolts (5, 6) and remove the brace (7).



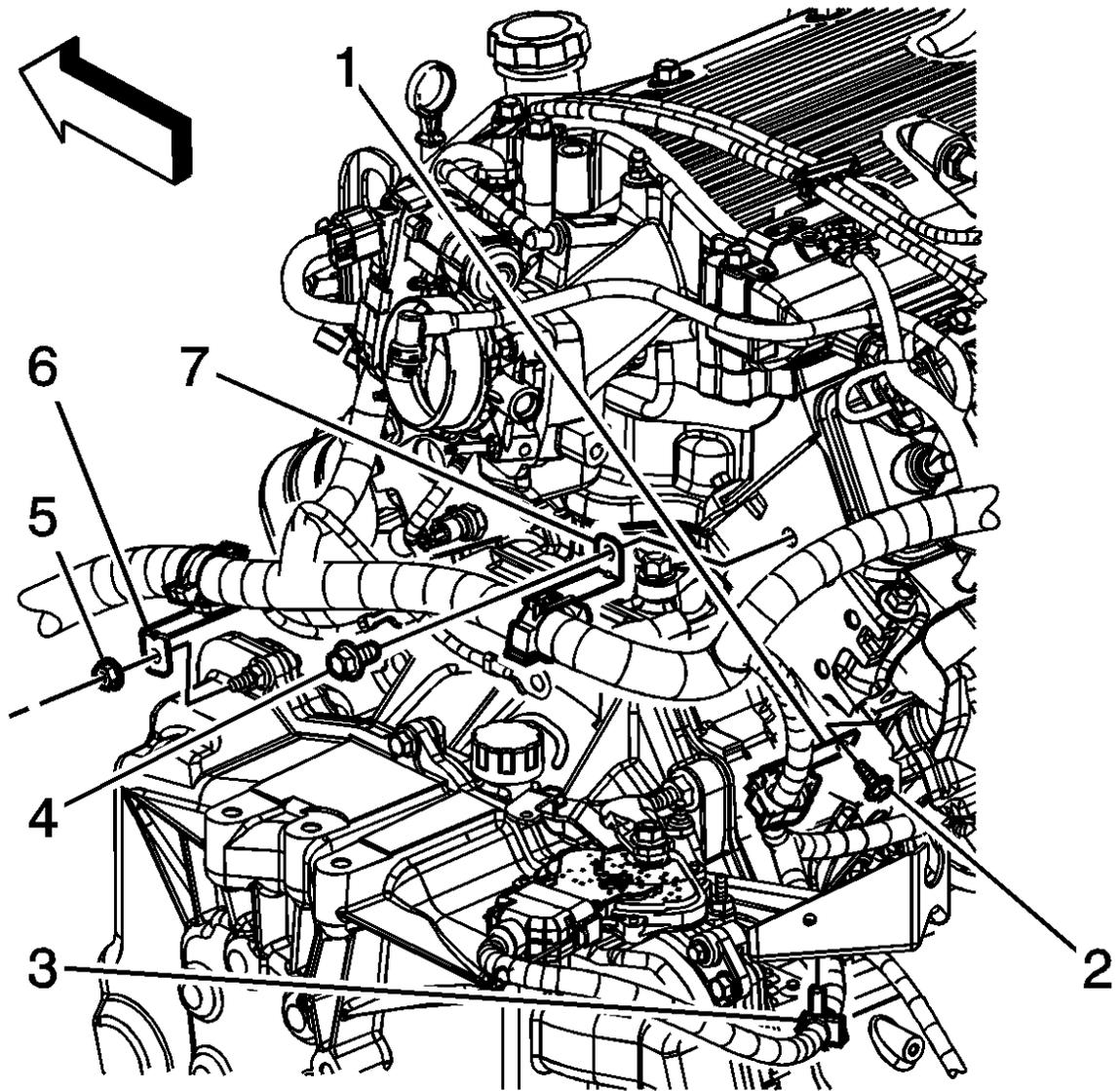
16. Remove the transaxle to [oil pan](#) brace bolts and brace.



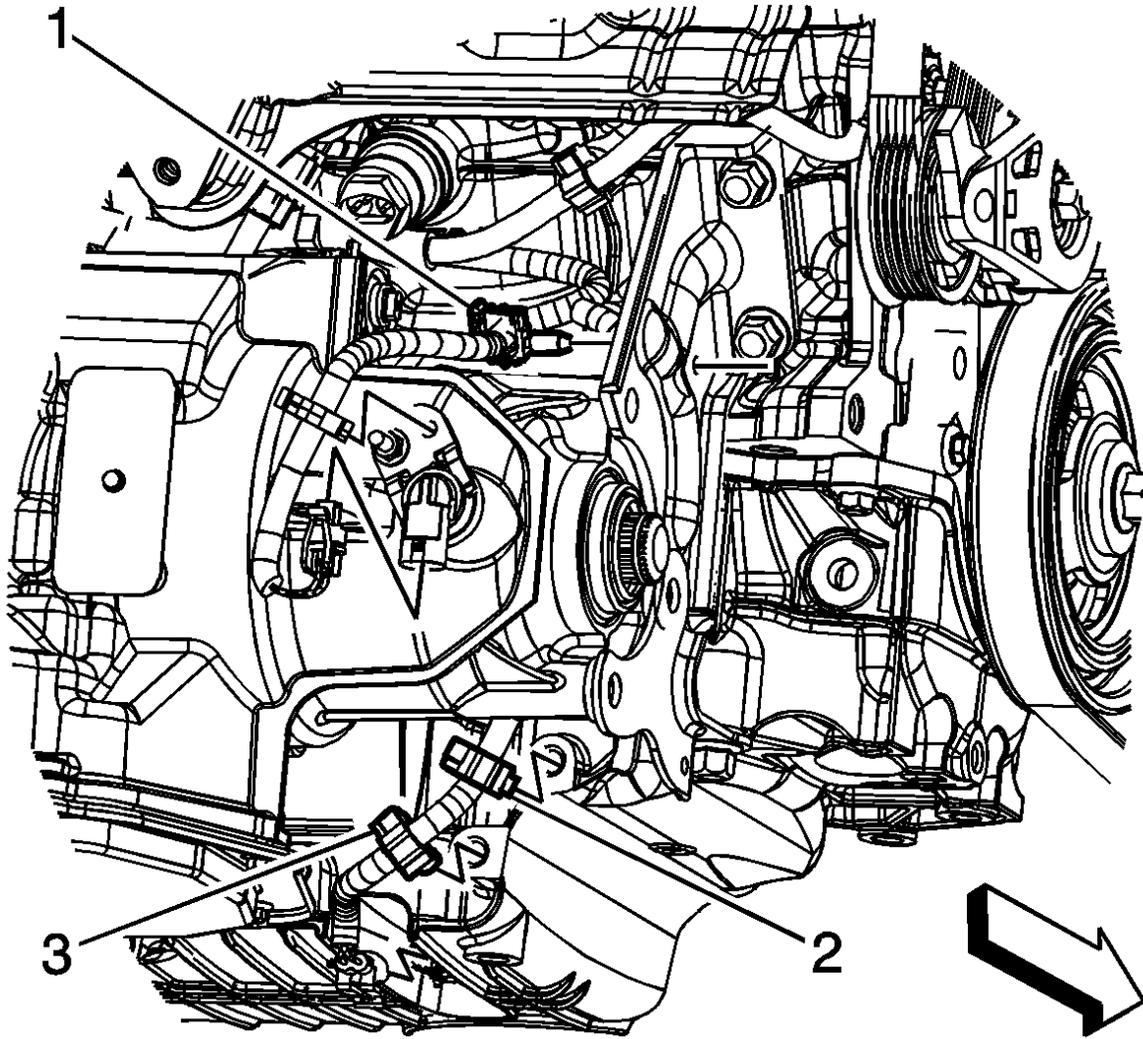
17. Remove the flexplate to torque converter bolts.
18. Lower the vehicle.



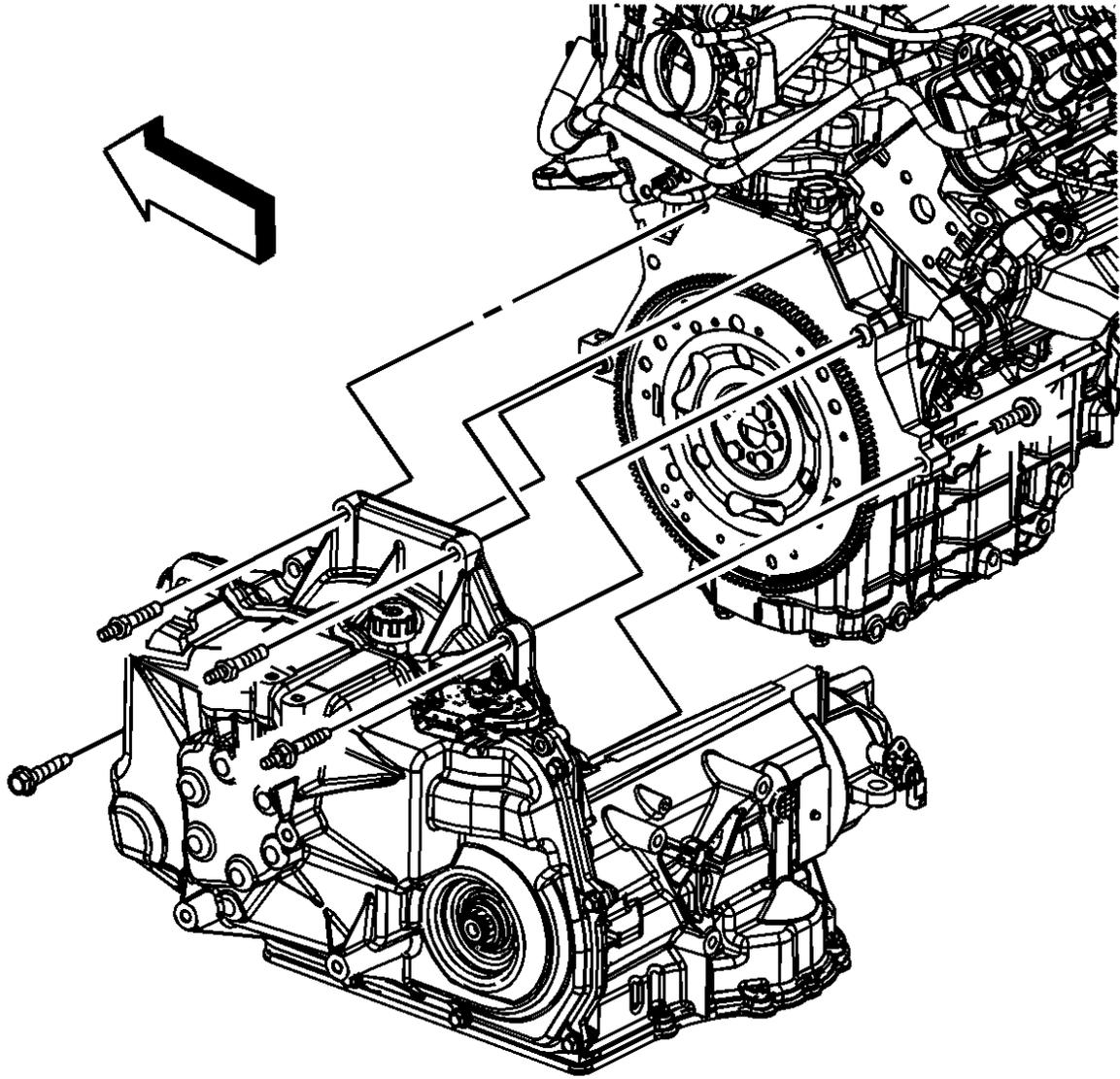
19. Remove the engine harness ground nut (3) from the transaxle stud.
20. Remove the engine wiring harness ground (2) and the negative battery cable ground (1) from the transaxle stud.



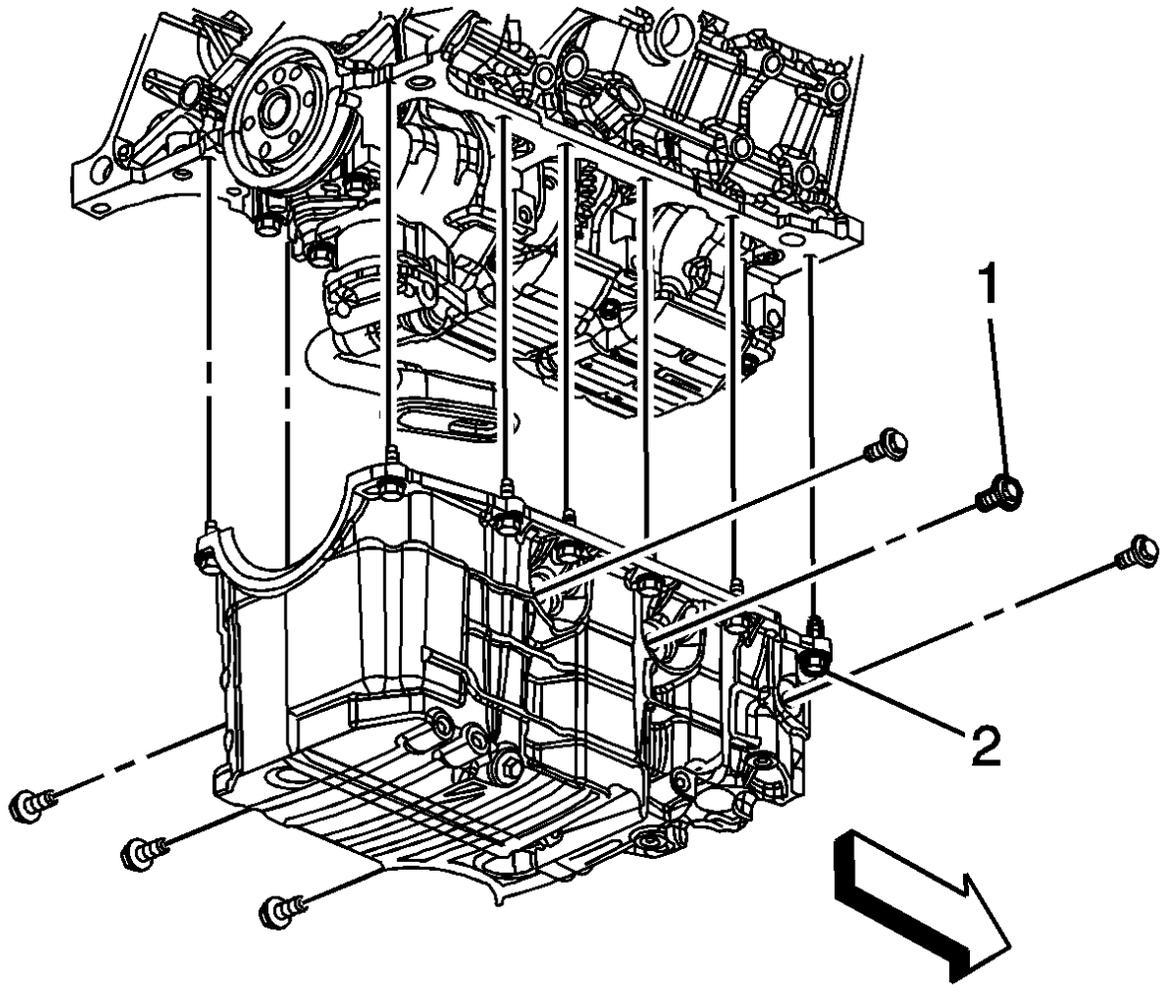
21. Remove the engine wiring harness clip nut (5) from the transaxle stud.
22. Remove the engine wiring harness clip (6) from the transaxle stud.



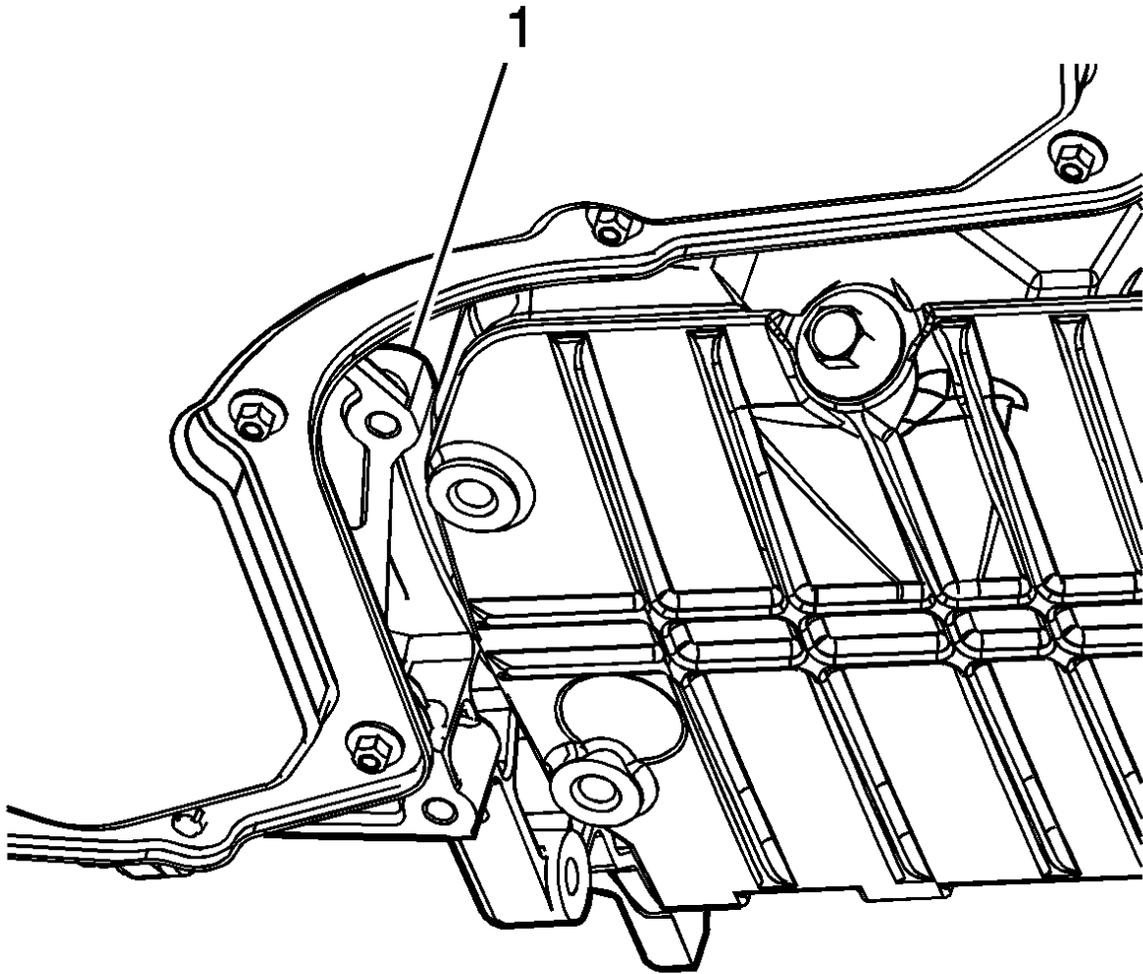
23. Remove the engine wiring harness clips (2, 3) from the [oil pan](#).



24. Loosen, DO NOT REMOVE the transaxle studs and bolts.
25. Using the engine support fixture, raise the engine and transaxle slightly.
26. Raise and support the vehicle.

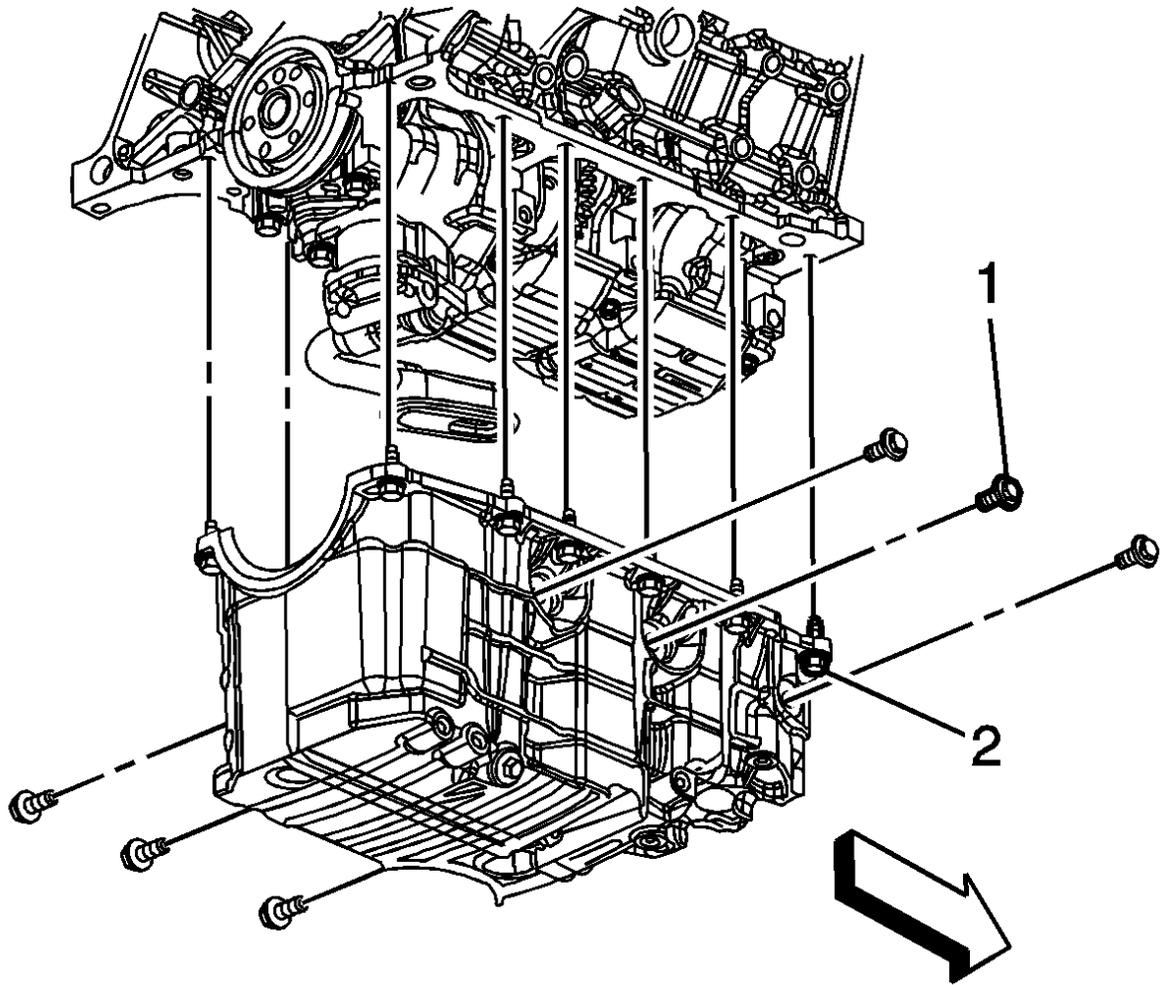


27. Remove the **oil pan** bolts (1, 2).
28. Separate the engine and transaxle approximately 13 mm (1/2 in).



29. Ensure that when removing the **oil pan**, the pan clears the boss (1) on the transaxle.
30. Remove the **oil pan**. If the **oil pan** cannot be removed, use the engine support fixture to raise the engine until the pan can be removed.
31. Remove and discard the **oil pan** gasket.
32. Clean the **oil pan** sealing surfaces.

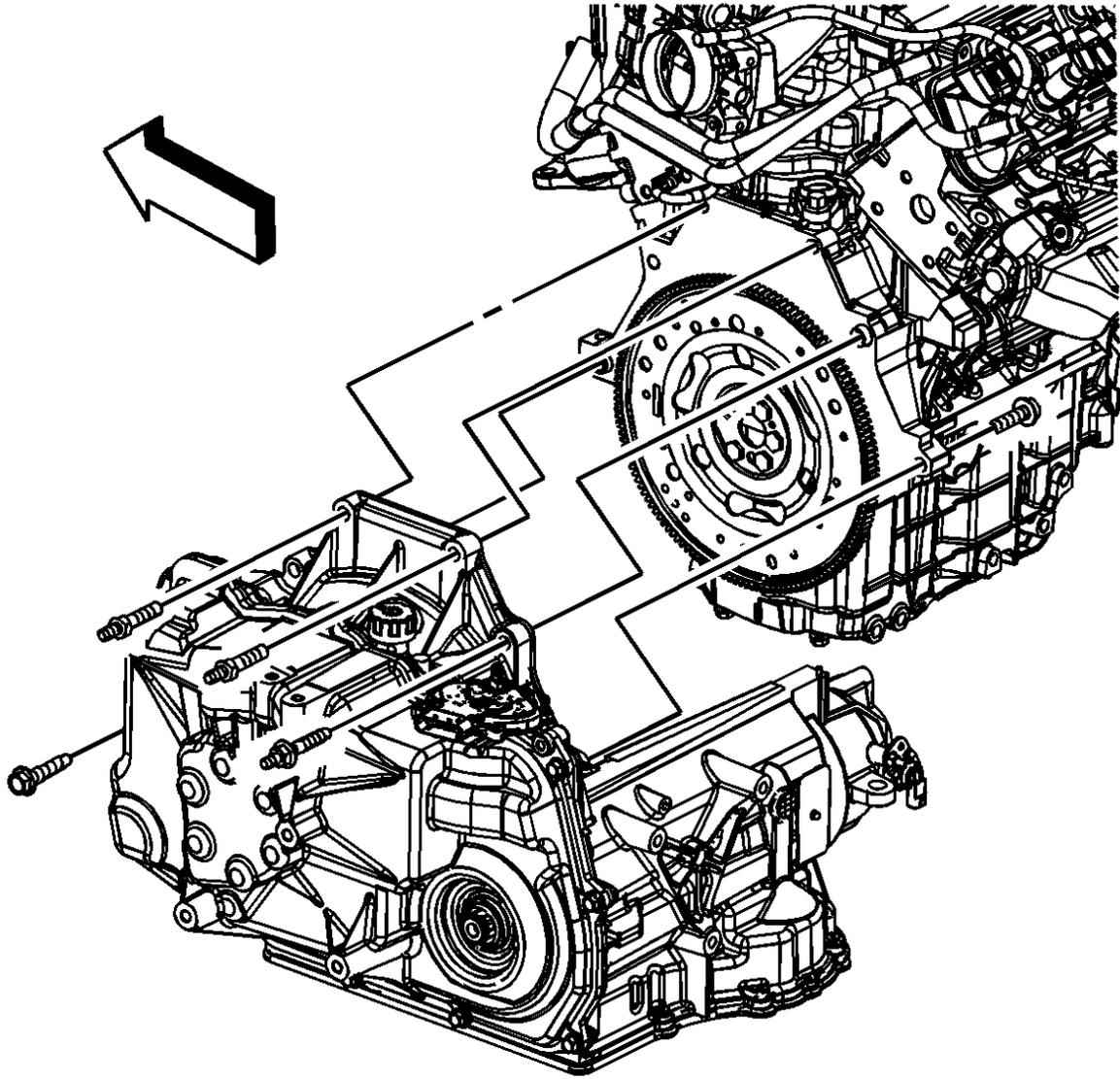
Installation Procedure



1. Apply sealer to both sides of the front cover/block mating area. Refer to [Adhesives, Fluids, Lubricants, and Sealers](#).
2. Apply sealer to both sides of the crankcase rear main bearing cap. Press the sealer into the gap using a putty knife. Refer to [Adhesives, Fluids, Lubricants, and Sealers](#).
3. Install a NEW oil pan gasket.
4. Install the oil pan.
5. Install the oil pan bolts (1, 2).

Tighten:

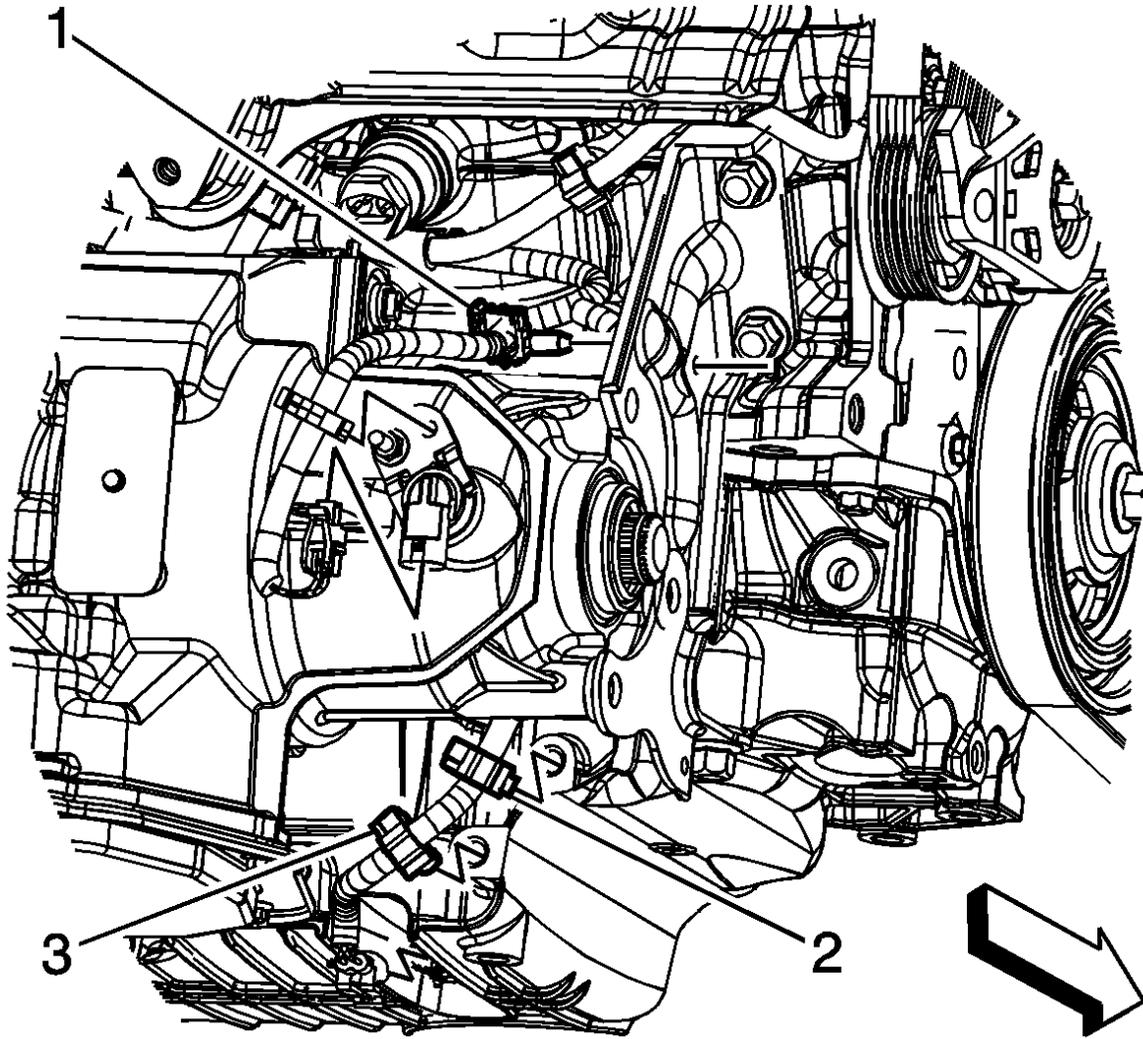
- o Tighten the bolts (1) to 50 [n-m] (37 lb ft) + 50 degrees.
- o Tighten the bolts (2) to 25 [n-m] (18 lb ft).



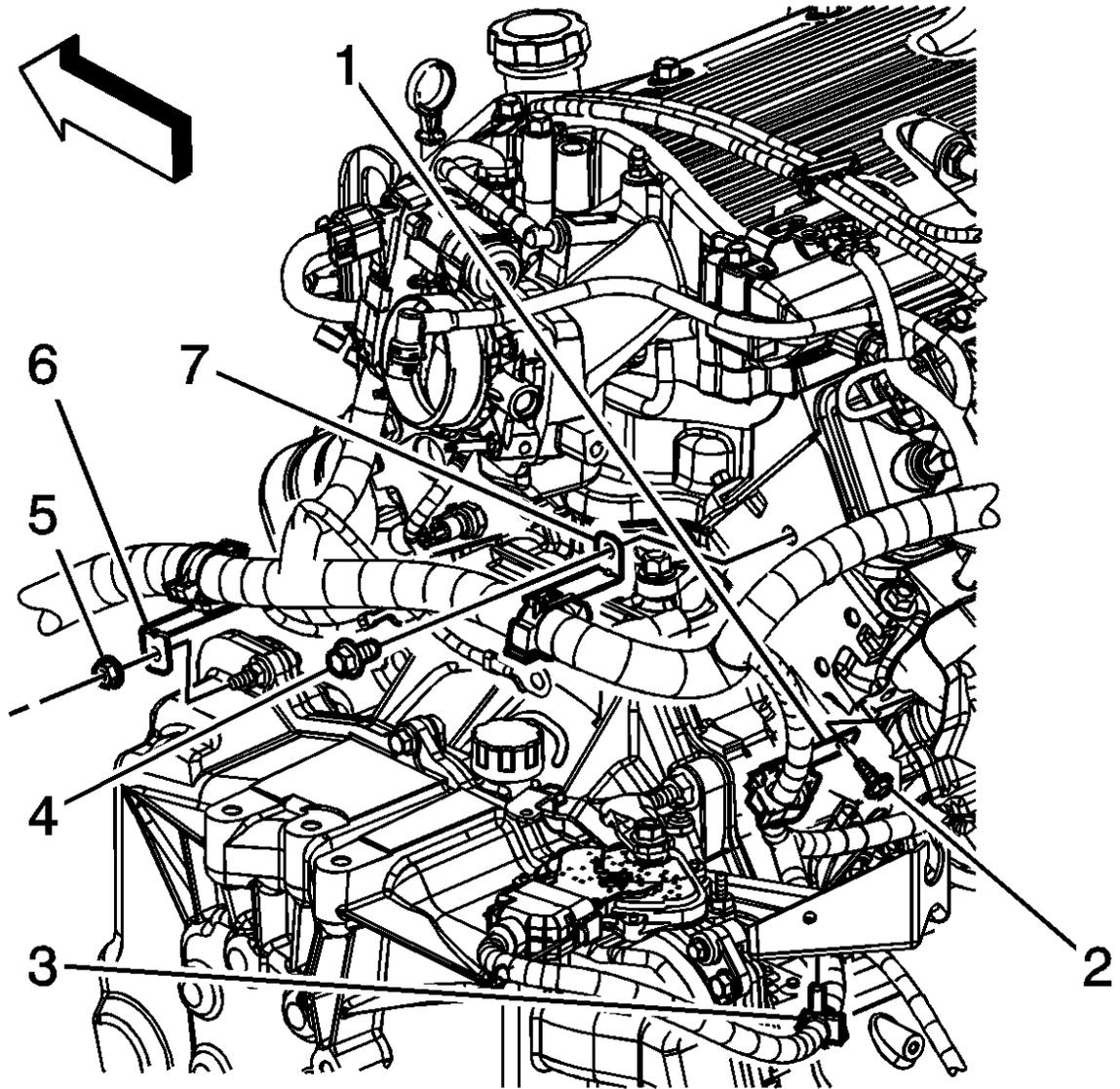
6. Lower the vehicle.
7. Using the engine support fixture, lower the engine and transaxle.
8. Tighten the transaxle studs and bolts.

Tighten:

Tighten the bolts/studs to 75 [n-m] (55 lb ft).



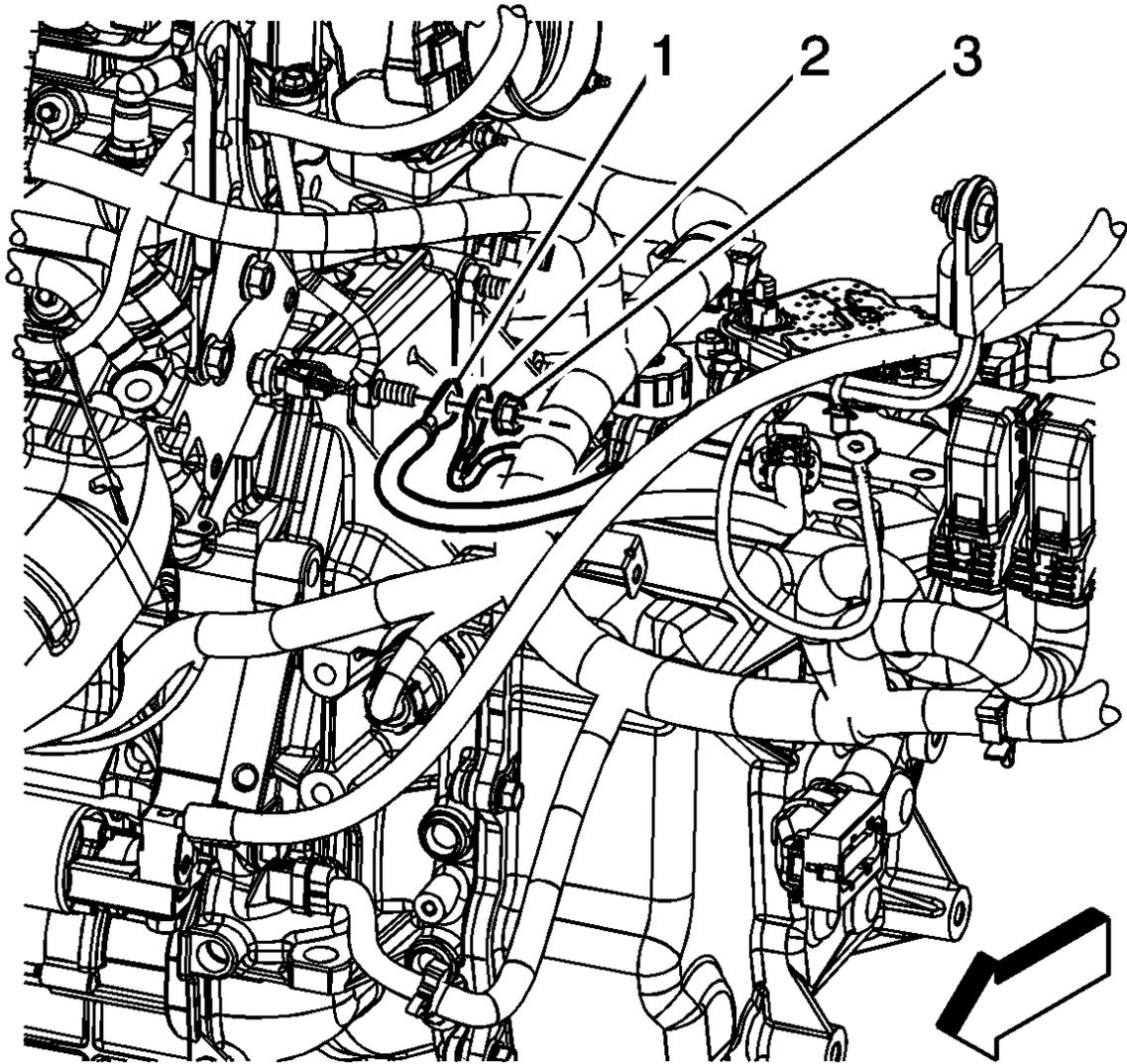
9. Install the engine wiring harness clips (2, 3) to the [oil pan](#).



10. Install the engine wiring harness clip (6) to the transaxle stud.
11. Install the engine wiring harness clip nut (5) to the transaxle stud.

Tighten:

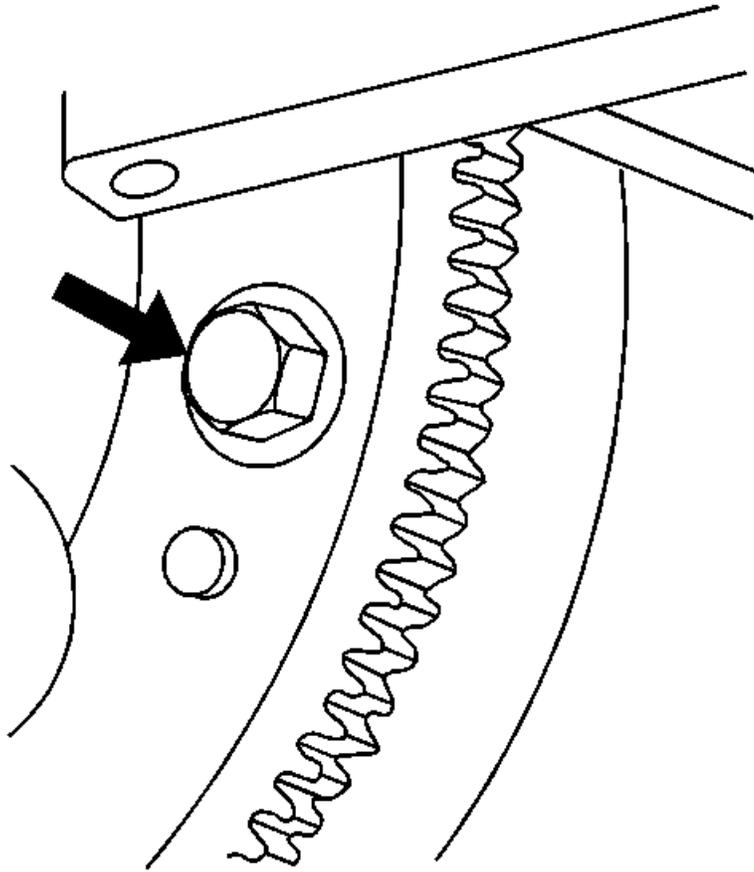
Tighten the nut to 25 [n-m] (18 lb ft).



12. Install the negative battery cable ground (1) and the engine wiring harness ground (2) to the transaxle stud.
13. Install the engine harness ground nut (3) to the transaxle stud.

Tighten:

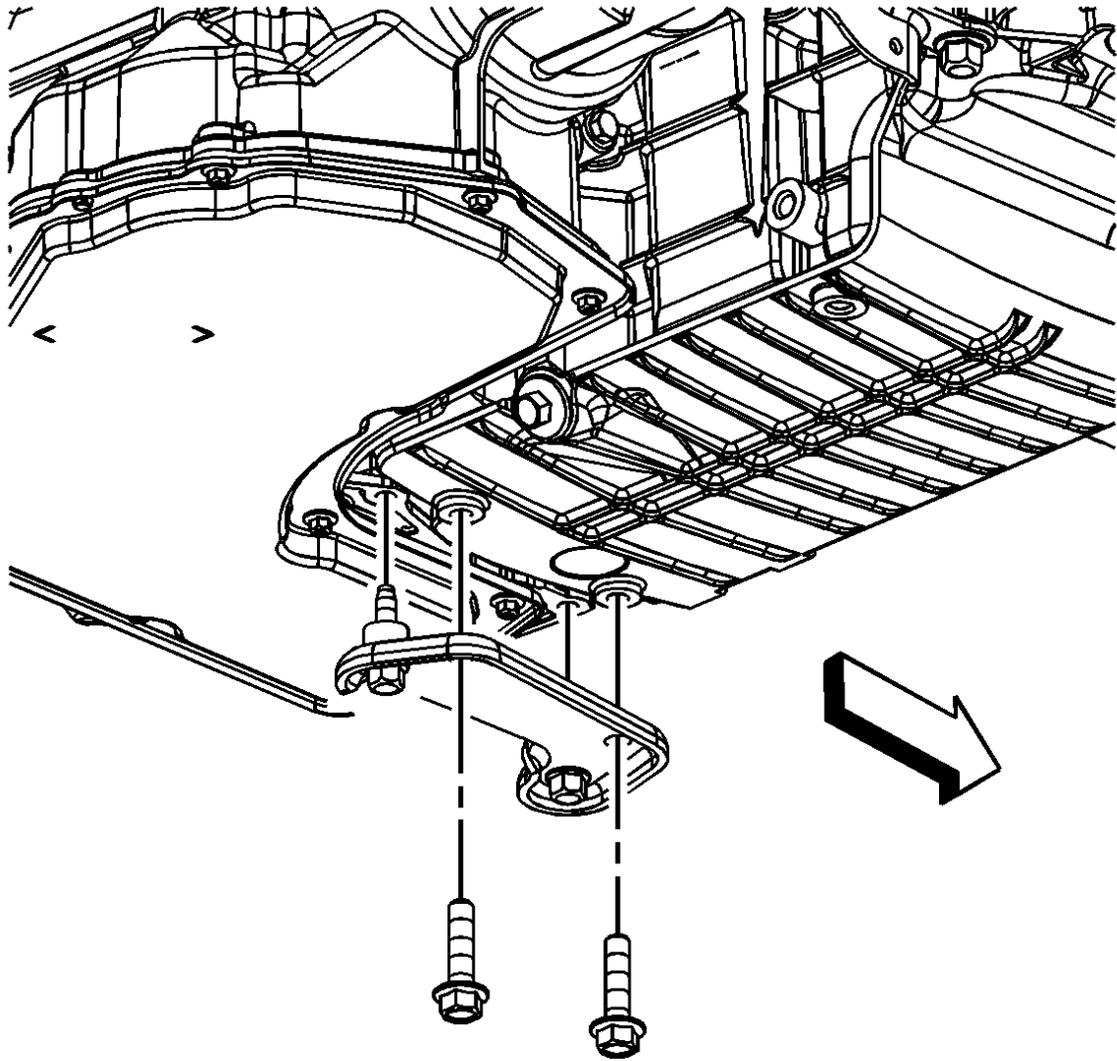
Tighten the nut to 25 [n-m] (18 lb ft).



14. Raise and support the vehicle.
15. Install the flexplate to torque converter bolts.

Tighten:

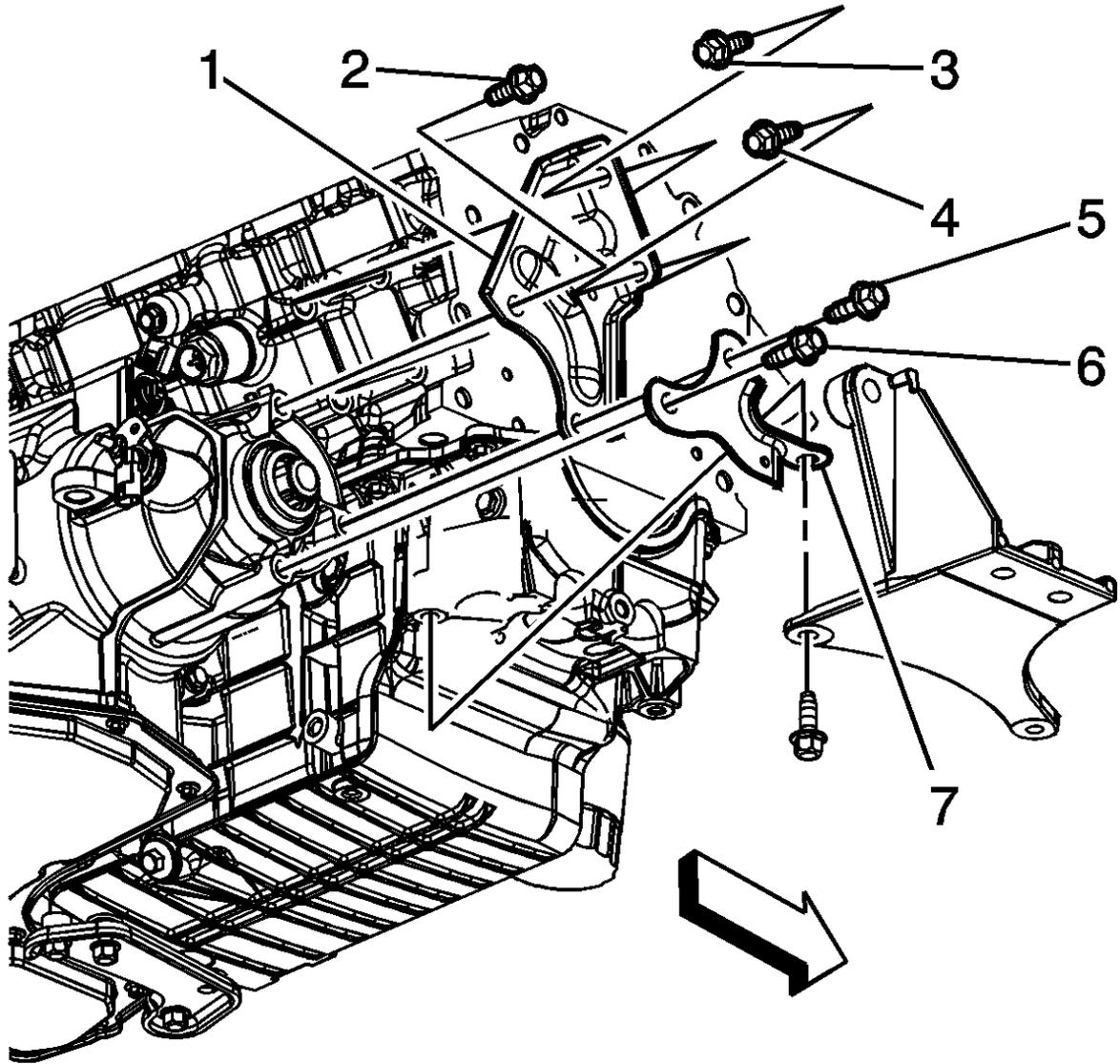
Tighten the bolts to 62 [n-m] (46 lb ft).



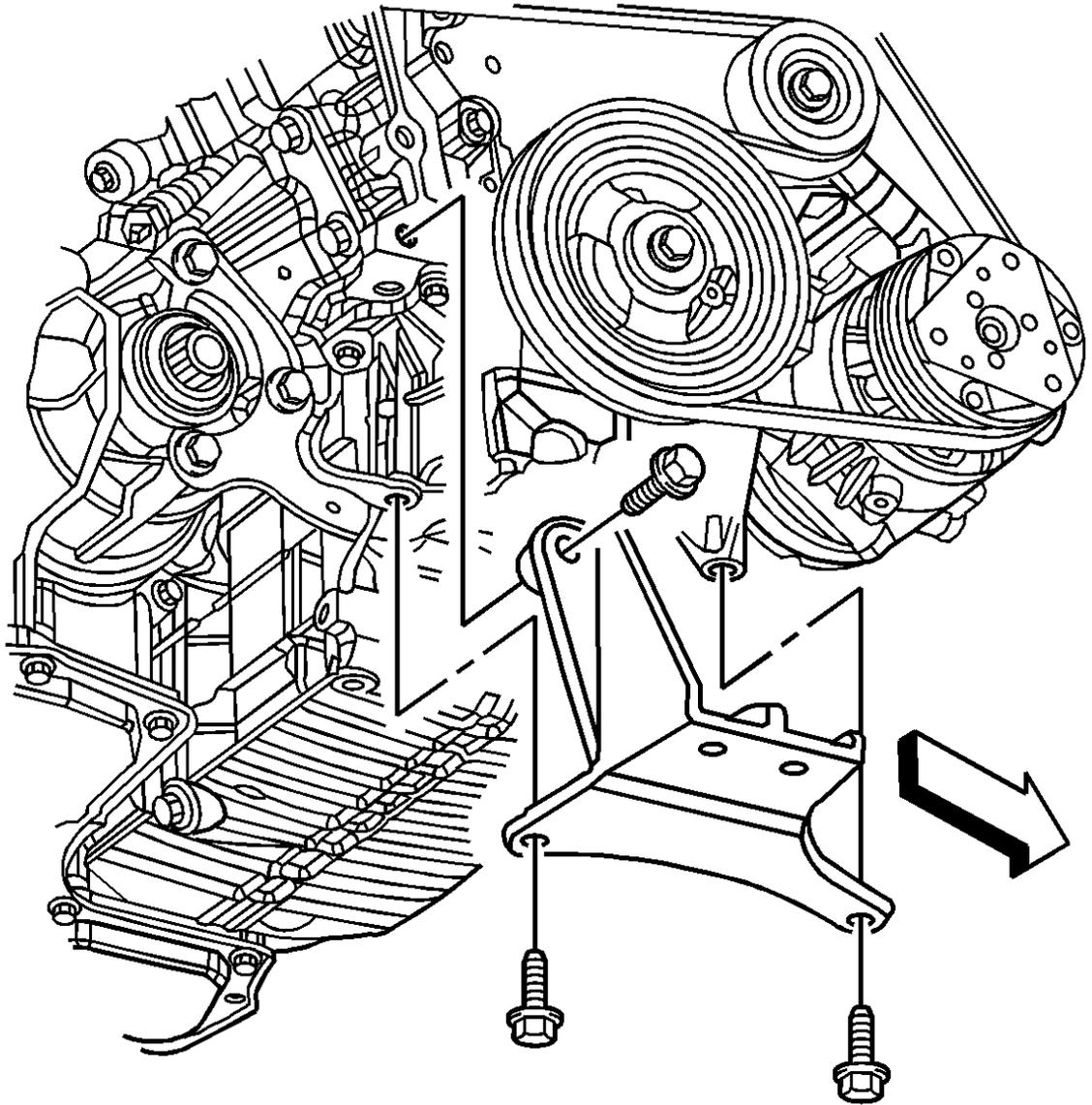
16. Position the transaxle to [oil pan](#) brace and install the bolts.

Tighten:

Tighten the bolts to 50 [n-m] (37 lb ft).



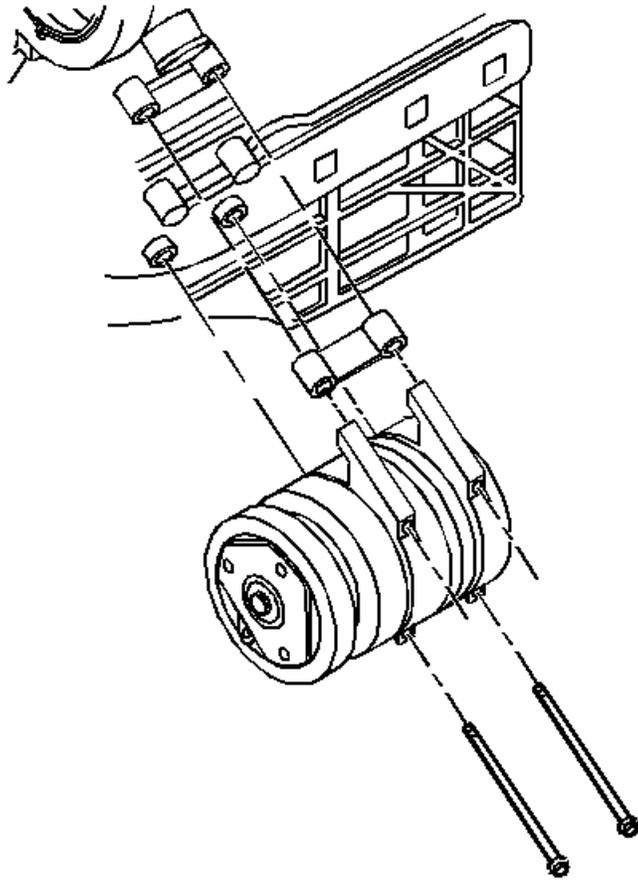
17. Position the transaxle brace (7) to the transaxle and install the bolts (5, 6) until snug.
18. Install the engine wiring harness clip to the rear of the transaxle brace.



19. Position the engine mount bracket to the engine and install the bolts until snug.
20. Tighten the engine mount bracket bolts and transaxle brace bolts.

Tighten:

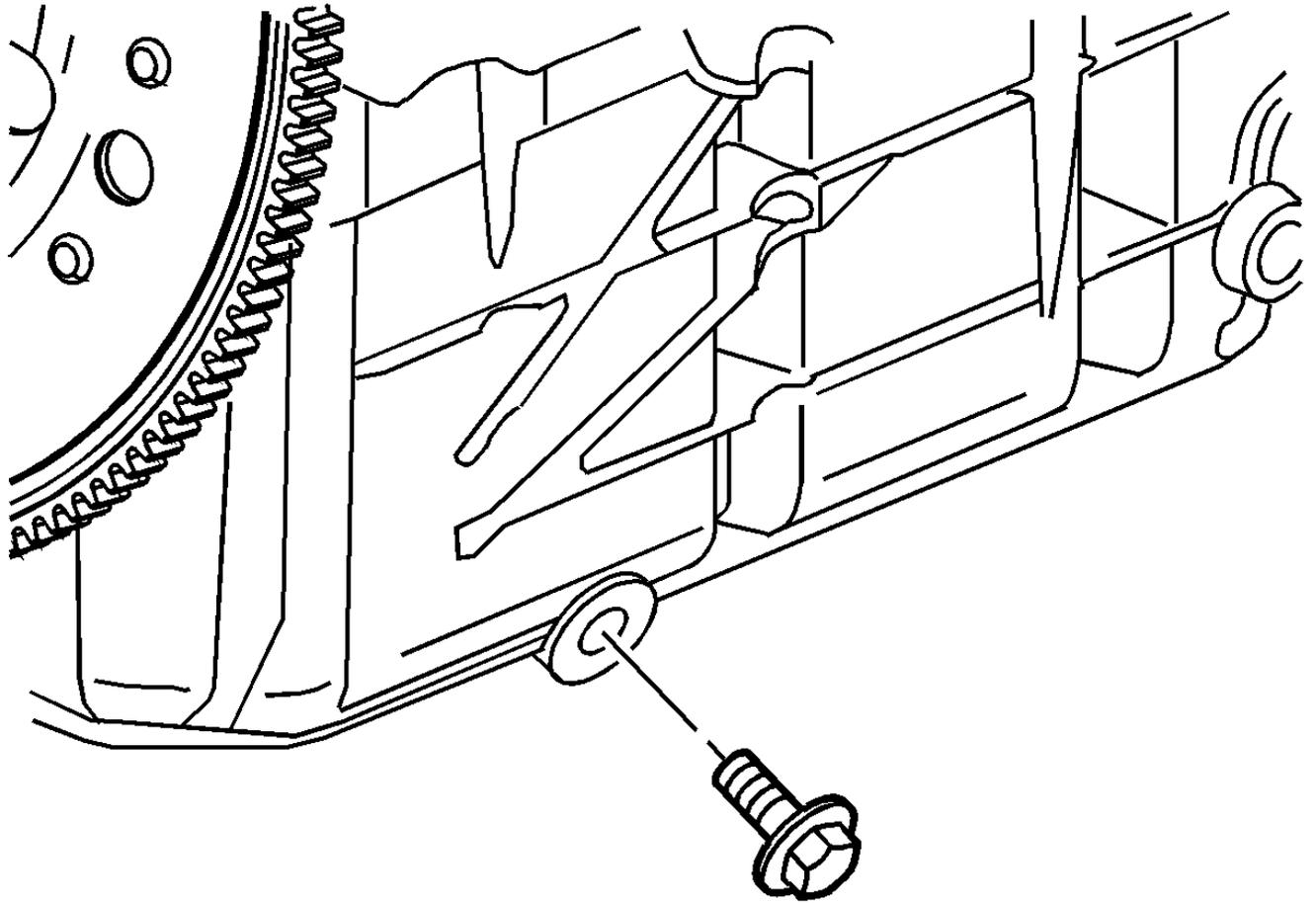
- Tighten the engine mount bracket upper bolt to 90 [n-m] (66 lb ft).
 - Tighten the engine mount bracket lower bolts to 50 [n-m] (37 lb ft).
 - Tighten the transaxle brace bolts to 72 [n-m] (53 lb ft).
21. Install the catalytic converters. Refer to [Catalytic Converter Replacement - Left Side \(LZ4\)](#)[Catalytic Converter Replacement - Left Side \(LZ9\)](#)[Catalytic Converter Replacement - Left Side \(LY7\)](#) and [Catalytic Converter Replacement - Right Side \(LZ4\)](#)[Catalytic Converter Replacement - Right Side \(LZ9 w/RPO MT2\)](#)[Catalytic Converter Replacement - Right Side \(LZ9 w/RPO M15\)](#)[Catalytic Converter Replacement - Right Side \(LY7\)](#).



22. Position the A/C compressor and install the bolts.

Tighten:

Tighten the bolts to 50 [n-m] (37 lb ft).



23. Install the oil filter adapter. Refer to [Oil Filter Adapter and Bypass Valve Assembly Replacement](#).
24. Install the starter. Refer to [Starter Replacement \(LE5\) Starter Replacement \(LZ4\) Starter Replacement \(LZ9\) Starter Replacement \(LY7\)](#).
25. Install the right front splash shield. Refer to [Engine Splash Shield Replacement - Right Side](#).
26. Ensure that the oil pan drain plug is tighten.

Tighten:

Tighten the drain plug to 26 [n-m] (19 lb ft).

27. Lower the vehicle.
28. Remove the engine support fixture.
29. Install the air cleaner inlet duct. Refer to [Air Cleaner Inlet Duct Replacement](#).
30. Install the drive belt. Refer to [Drive Belt Replacement](#).
31. Fill the crankcase with oil.
32. Connect the negative battery cable. Refer to [Battery Negative Cable Disconnection and Connection](#).
33. Start the engine and inspect for leaks.

