

REMOVAL

REMOVAL

NOTE: Capture and store any residual fluid drainage, or leakage from disconnected components or systems in appropriately marked containers. Dispose of residual fluid in accordance with all applicable environmental regulations.

1. Remove the engine cover.

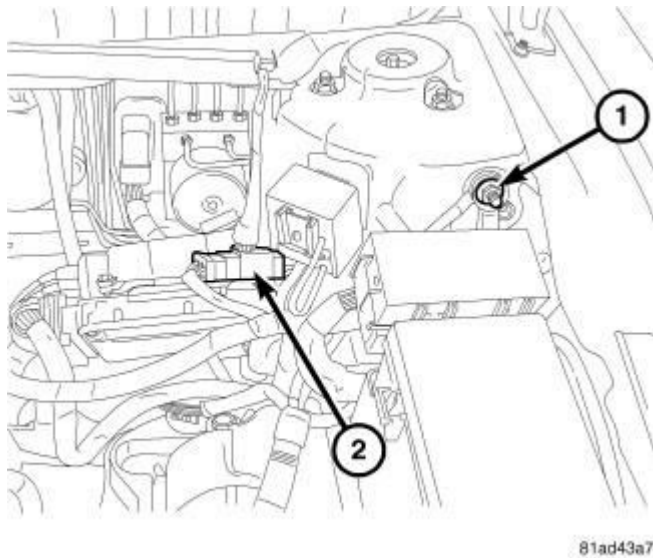
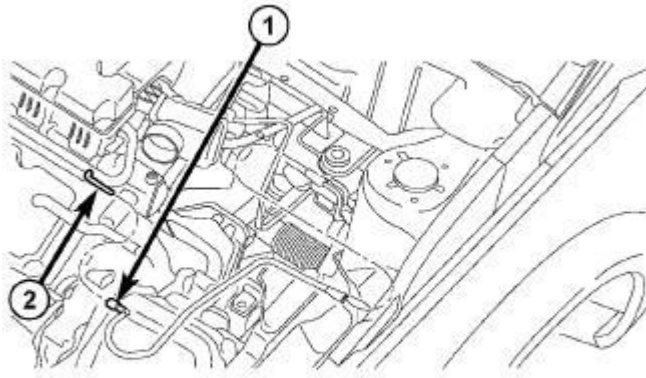


Fig. 12: BATTERY CABLE
Courtesy of CHRYSLER LLC

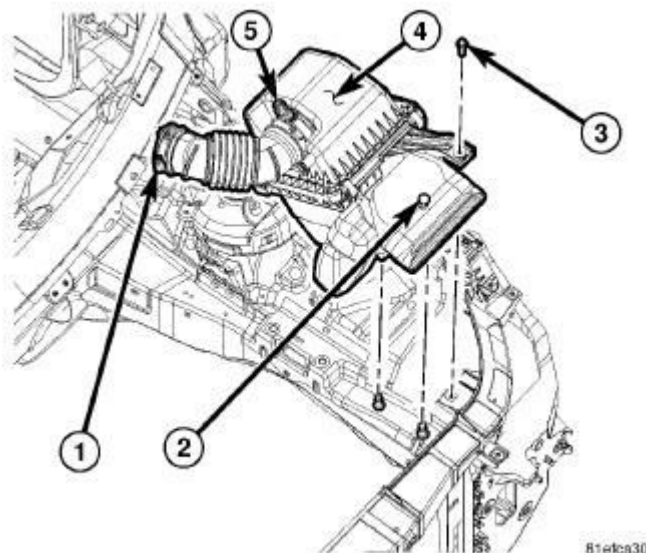
2. Disconnect and isolate the negative battery cable (1).
3. Drain the cooling system. Refer to **Cooling - Standard Procedure** .
4. Evacuate and recover the air conditioning system. Refer to **Heating and Air Conditioning/Plumbing - Standard Procedure** .
5. Perform the fuel pressure release procedure. Refer to **Fuel System/Fuel Delivery - Standard Procedure** .



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Fig. 13: Disconnecting/Reconnecting Fuel Line
Courtesy of CHRYSLER LLC

6. Disconnect fuel line (1) from the fuel rail inlet (2) and position aside.



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Fig. 14: HOUSING - AIR CLEANER
Courtesy of CHRYSLER LLC

7. Remove the Air Cleaner Housing (4). See **Engine/Air Intake System/BODY, Air Cleaner - Removal**.

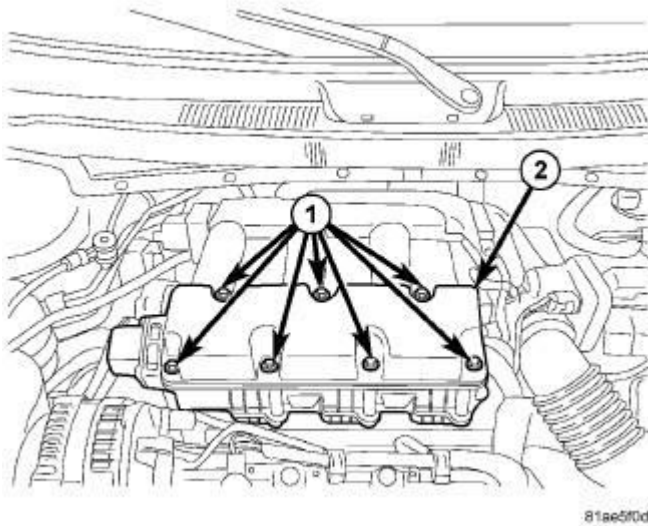


Fig. 15: Identifying Upper Intake Manifold Bolts
Courtesy of CHRYSLER LLC

8. Remove the Upper Intake Manifold (2). See [Engine/Manifolds/MANIFOLD, Intake - Removal](#).

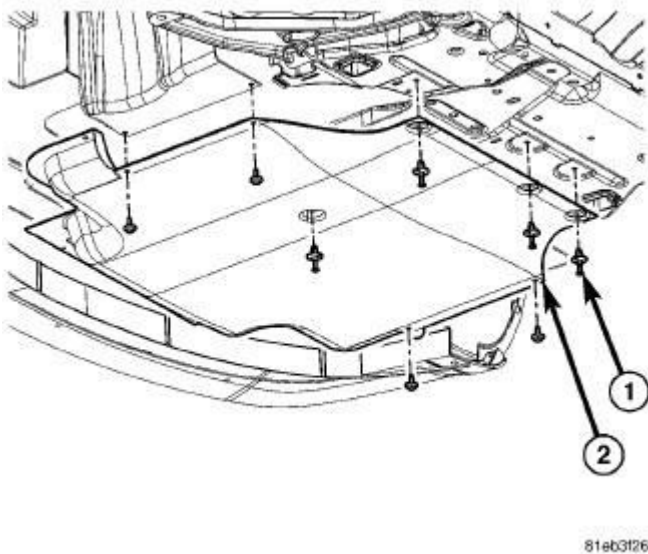


Fig. 16: Belly Pan
Courtesy of CHRYSLER LLC

- | |
|---------------|
| 1 - Fasteners |
| 2 - Belly Pan |

9. Raise the vehicle.
10. Remove the 12 belly pan fasteners (1) and remove the belly pan (2).

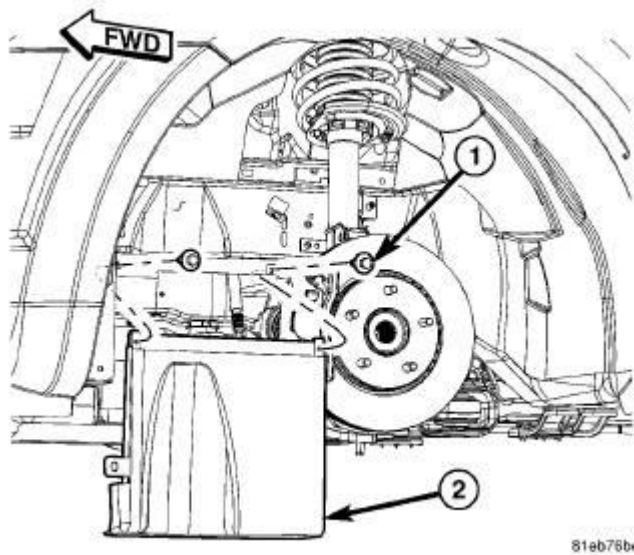


Fig. 17: Left Lower Splash Shield
Courtesy of CHRYSLER LLC

11. Remove the Right Forward Splash Shield (2). Refer to **Body/Exterior/SHIELD, Splash - Removal** .

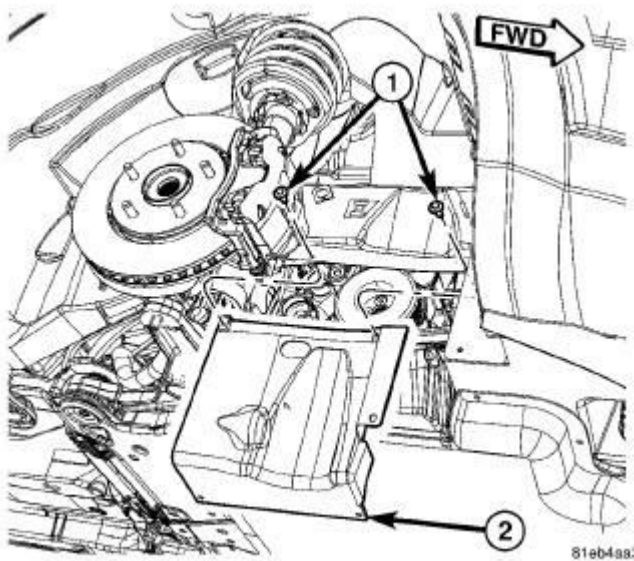


Fig. 18: Right Lower Splash Shield
Courtesy of CHRYSLER LLC

12. Remove the Left Forward Splash Shield (2). Refer to **Body/Exterior/SHIELD, Splash - Removal** .

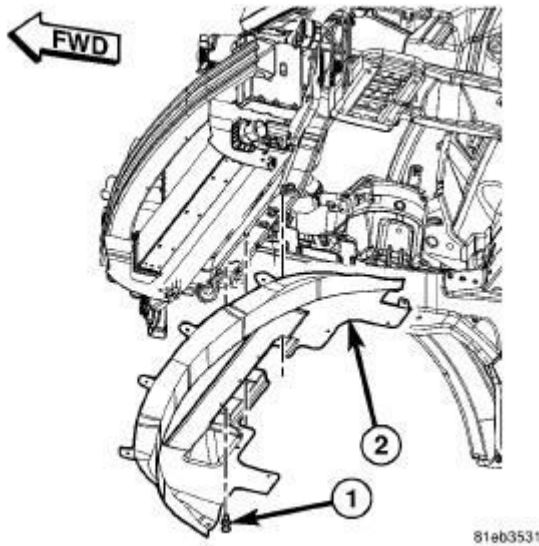


Fig. 19: Front Closeout Panel
 Courtesy of CHRYSLER LLC

13. Remove the Front Closeout Panel (2). Refer to Frame and Bumpers/Bumpers/FASCIA, Front Lower - Removal .

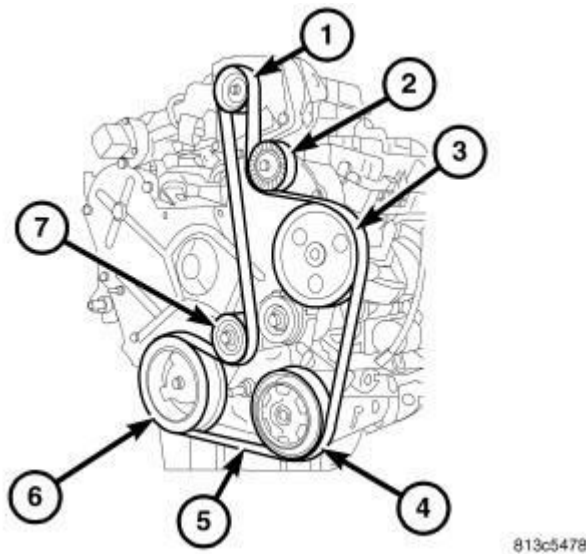
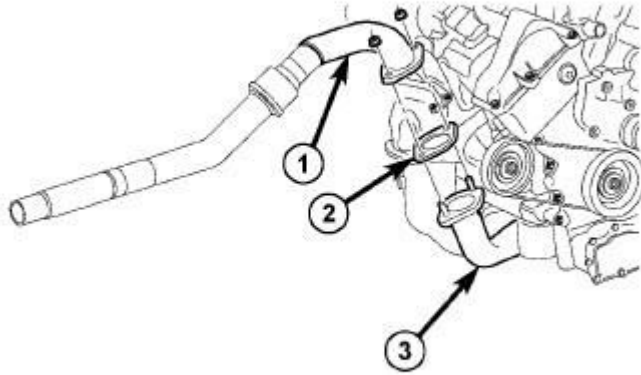


Fig. 20: 3.5L ENGINE ACCESSORY DRIVE BELT ROUTING
 Courtesy of CHRYSLER LLC

- | |
|--|
| 1 - IDLER PULLEY
2 - P/S PUMP
3 - A/C COMPRESSOR
4 - CRANKSHAFT
5 - TENSIONER
6 - GENERATOR |
|--|

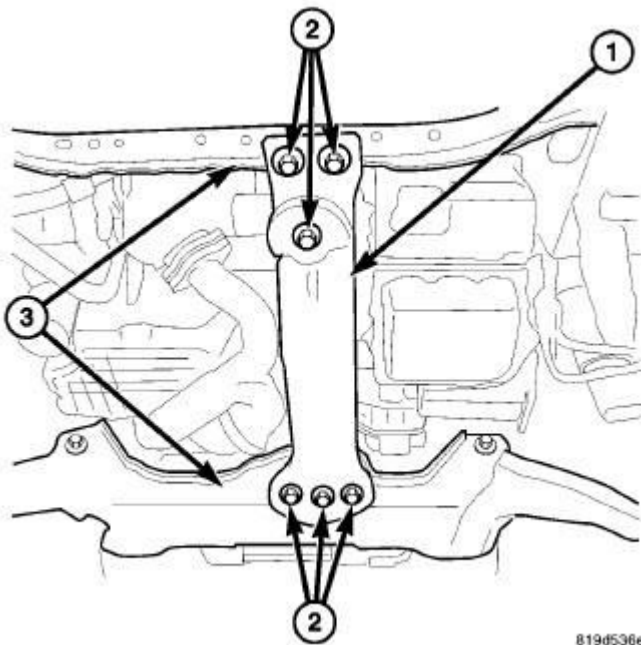
14. Remove the accessory drive belt (6). Refer to Cooling/Accessory Drive/BELT, Serpentine - Removal .



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Fig. 21: Exhaust Extension Pipe & Gasket
 Courtesy of CHRYSLER LLC

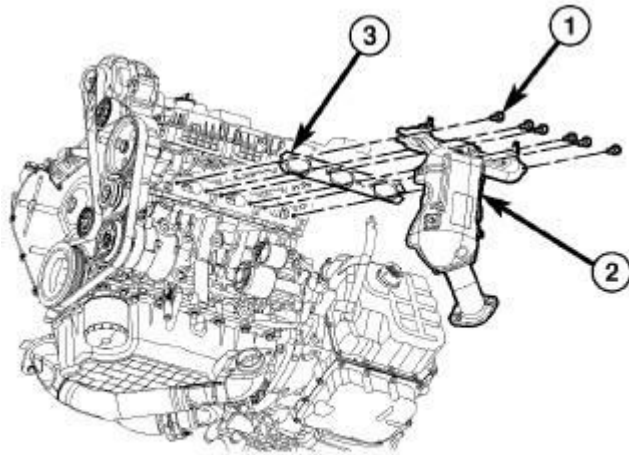
15. Disconnect the Exhaust Extension Pipe (1) and gasket (2) from the Crossunder pipe (3).
16. Remove the Cross Under Pipe (3). Refer to **Exhaust System/PIPE, Exhaust Crossunder - Removal** .



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Fig. 22: Transmission Crossmember
 Courtesy of CHRYSLER LLC

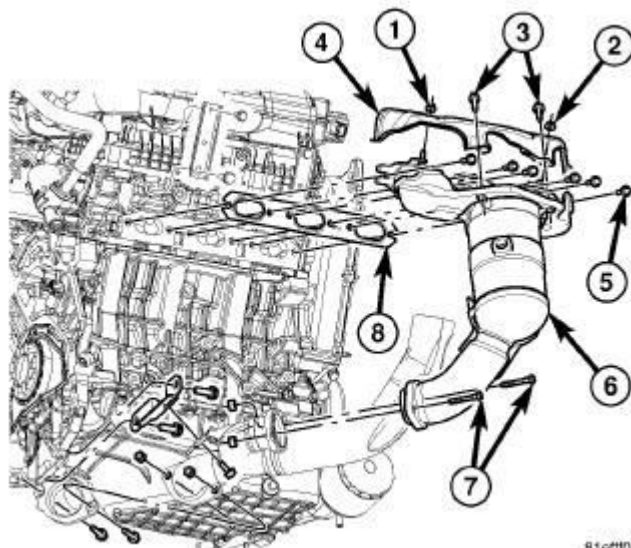
17. Remove the fore-aft crossmember (1). Refer to **Frame and Bumpers/Frame/CROSSMEMBER - Removal** .



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Fig. 23: Right Maniverter
 Courtesy of CHRYSLER LLC

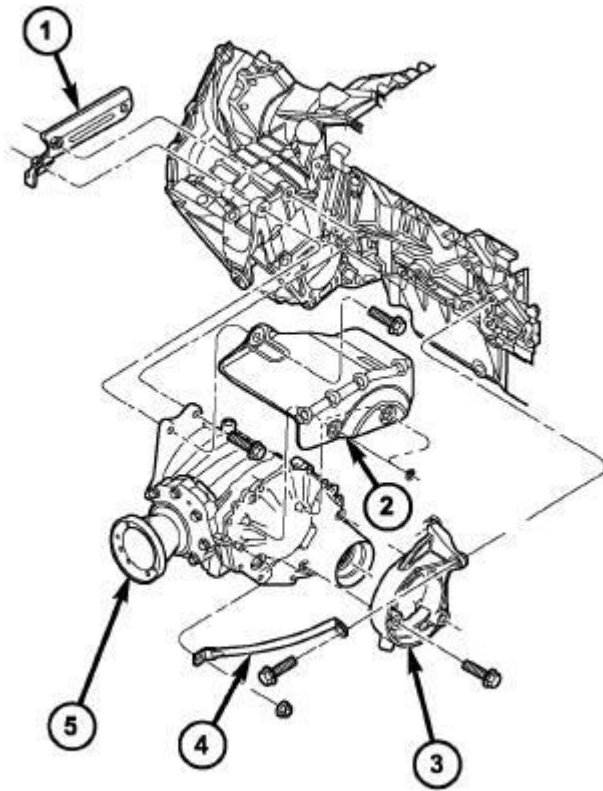
18. Remove the Right Front Half Shaft assembly. Refer to Differential and Driveline/Half Shaft - Removal .
19. Remove the Right Maniverter. See Engine/Manifolds/MANIFOLD, Exhaust - Removal.



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Fig. 24: Maniverter Retaining Bolts
 Courtesy of CHRYSLER LLC

20. Remove the Left Maniverter (6). See Engine/Manifolds/MANIFOLD, Exhaust - Removal.



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Fig. 25: Power Transfer Unit Mounting
Courtesy of CHRYSLER LLC

- | |
|-------------------------|
| 1 - BRACKET |
| 2 - HEAT SHIELD |
| 3 - BRACKET |
| 4 - BRACE |
| 5 - POWER TRANSFER UNIT |

21. If equipped, remove the PTU (5). Refer to **Transmission and Transfer Case/Power Transfer Unit - Removal** .

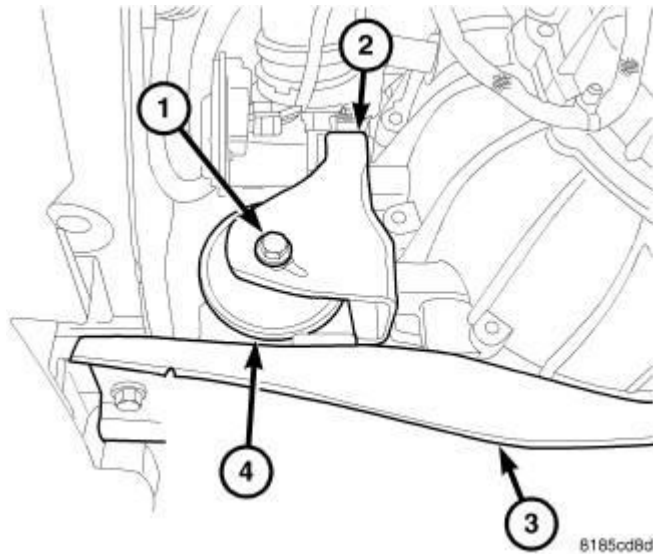


Fig. 26: Removing/Installing Front Mount
 Courtesy of CHRYSLER LLC

22. Remove the Front Engine Mount Bracket (2). See **Engine/Engine Mounting/INSULATOR, Engine Mount - Removal**.

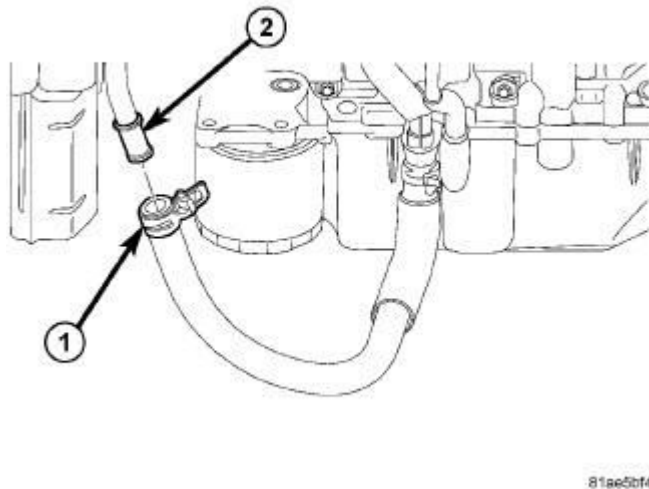
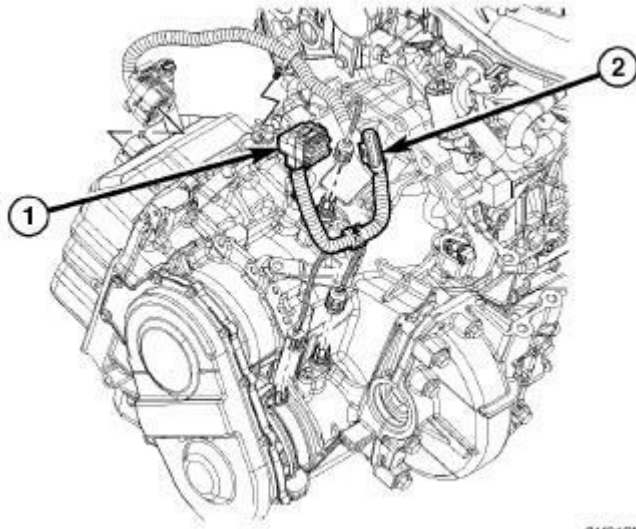


Fig. 27: Lower Coolant Hose From Return Tube
 Courtesy of CHRYSLER LLC

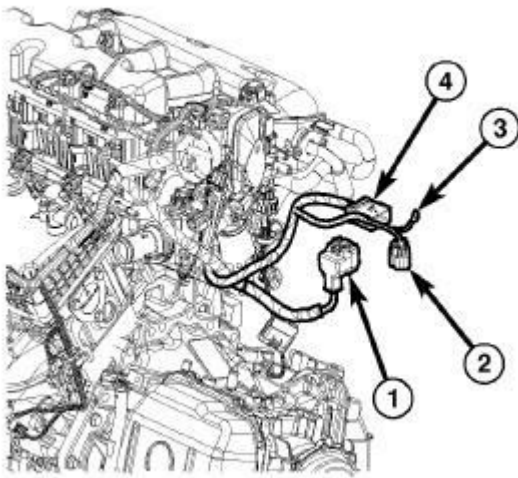
23. Disconnect the Lower Coolant Hose (1) from the return tube (2).
24. Remove the Left Front Half Shaft. Refer to **Differential and Driveline/Half Shaft - Removal**.
25. Lower Vehicle.



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Fig. 28: Engine Harness Connectors
Courtesy of CHRYSLER LLC

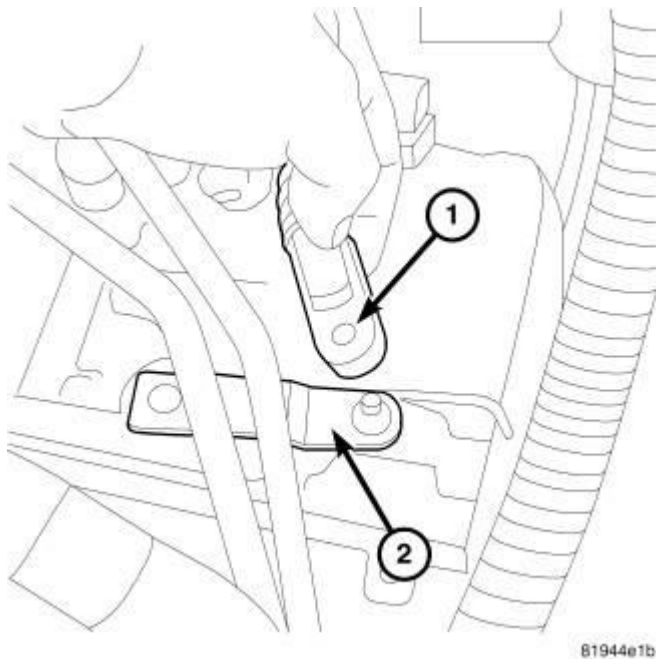
26. Disconnect the engine harness PCM (1), 12-way (2), ground (3), 8-way (4) connectors.



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Fig. 29: Transaxle Harness Connectors
Courtesy of CHRYSLER LLC

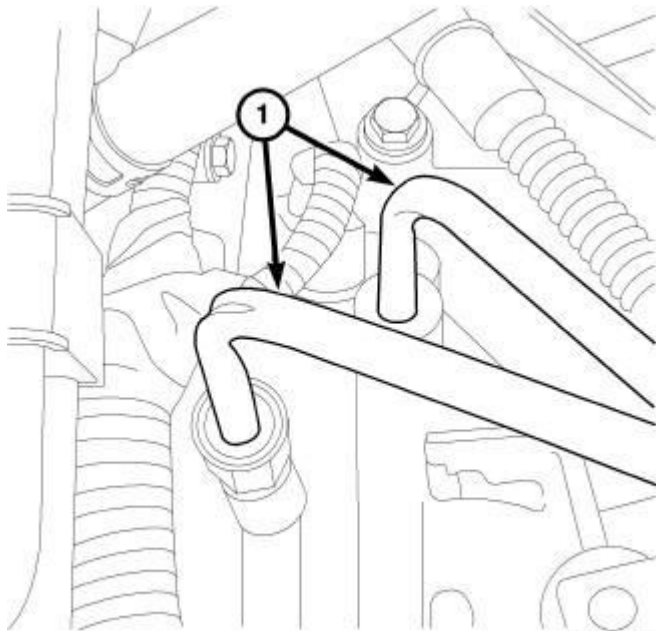
27. Disconnect the transaxle harness PCM (1), and 6-way (2) connectors.



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Fig. 30: Transaxle Shifter Cable
Courtesy of CHRYSLER LLC

28. Disconnect the transaxle shifter cable (1).



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Fig. 31: Transaxle Cooler Lines
Courtesy of CHRYSLER LLC

29. Disconnect the transaxle cooler lines (1).

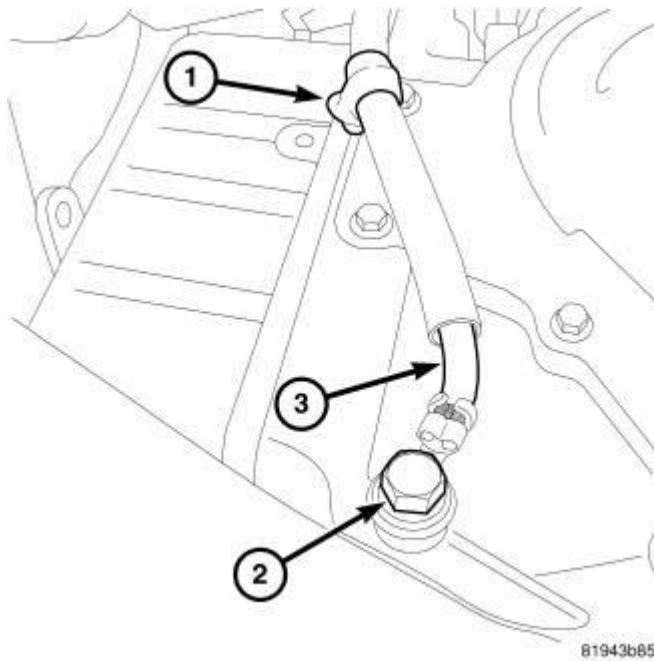


Fig. 32: GROUND CABLE
Courtesy of CHRYSLER LLC

30. Disconnect the ground (3) from the side of the transaxle.

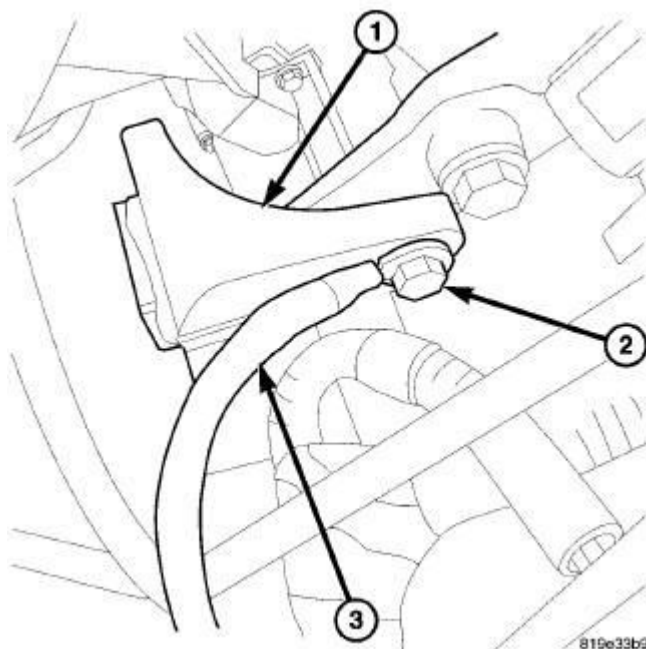


Fig. 33: GROUND CABLE AT FRONT MOUNT
Courtesy of CHRYSLER LLC

31. Disconnect the ground (3) from the front of the transaxle.

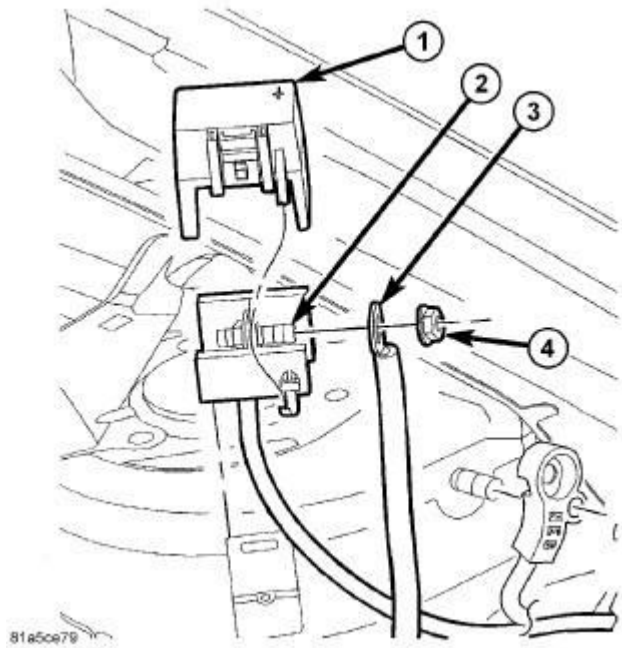


Fig. 34: Identifying Positive Cable Retaining Nut & Cable
 Courtesy of CHRYSLER LLC

32. Disconnect the positive auxiliary battery post cable (2) and the negative battery cable from the left shock tower and position aside.

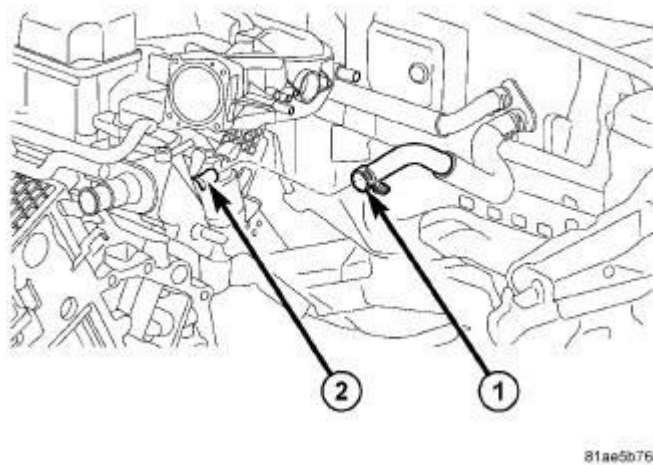


Fig. 35: Heater Core Supply Hose
 Courtesy of CHRYSLER LLC

33. Disconnect the heater core supply hose (1) from the intake manifold outlet (2).

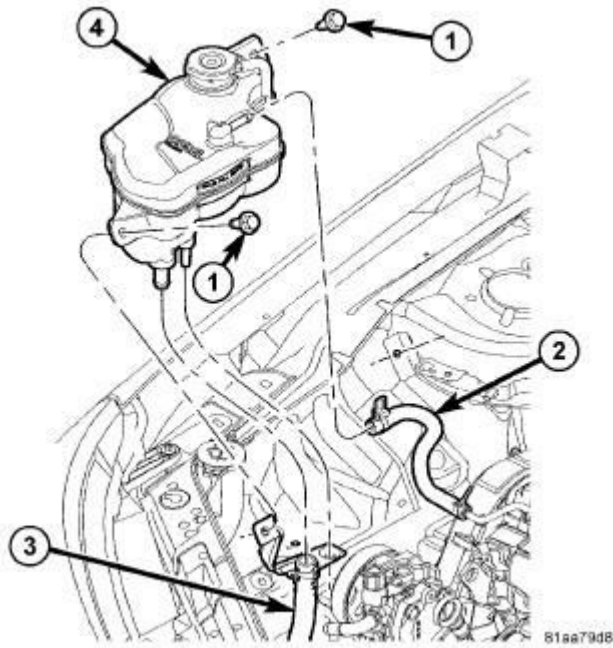


Fig. 36: COOLANT RECOVERY CONTAINER - PRESSURE SYSTEM
Courtesy of CHRYSLER LLC

34. Disconnect the coolant reservoir overflow hose (2) from the coolant bottle (4) and position aside.

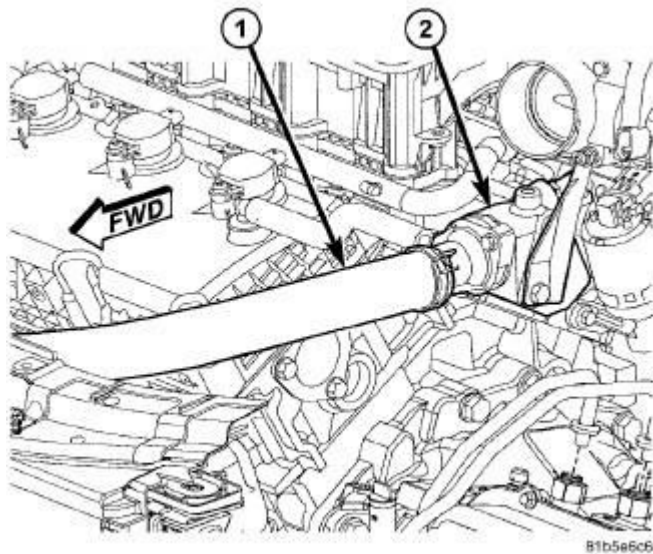
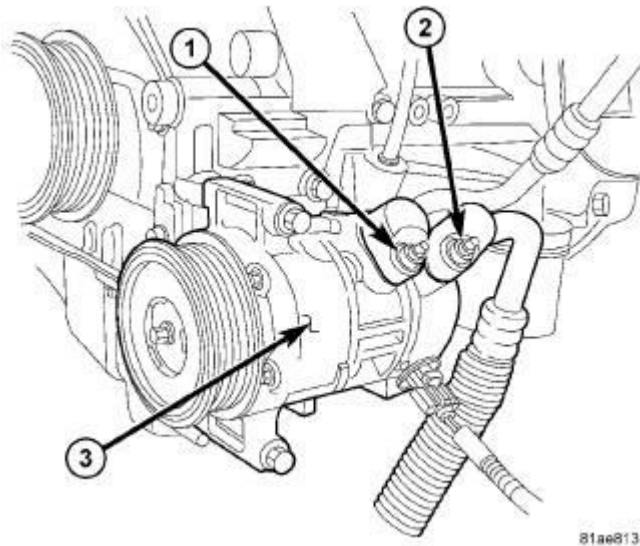


Fig. 37: Upper Radiator Hose From Thermostat Housing
Courtesy of CHRYSLER LLC

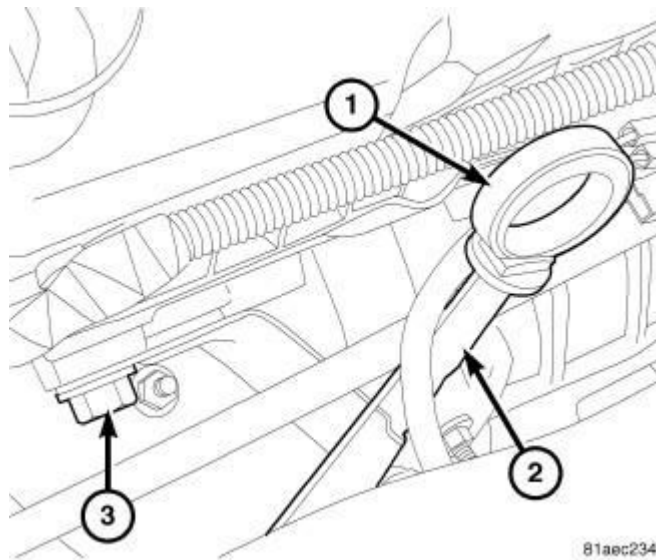
35. Disconnect the Upper Radiator hose (1) from the thermostat housing (2) and position aside.



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Fig. 38: A/C Discharge Line-Compressor
 Courtesy of CHRYSLER LLC

36. Disconnect both A/C lines (1) and (2) and the harness connector from the A/C compressor (3).
37. Remove the A/C compressor (3). Refer to **Heating and Air Conditioning/Plumbing/COMPRESSOR, A/C - Removal** .



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Fig. 39: Engine Oil Dipstick Tube
 Courtesy of CHRYSLER LLC

38. Remove the Fan Module. Refer to **Cooling/Engine/FAN, Cooling - Removal** .
39. Remove the bolt, and the engine oil dipstick tube (2).

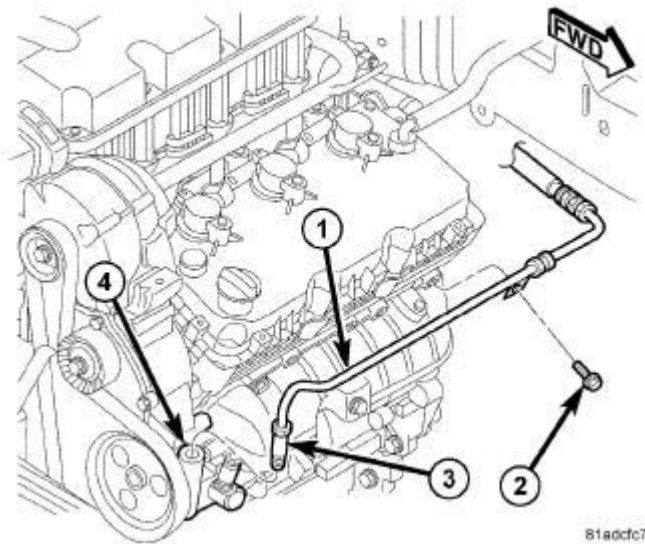


Fig. 40: Power Steering Line Retainer Bolt
Courtesy of CHRYSLER LLC

40. Remove the power steering line retainer bolt (2).

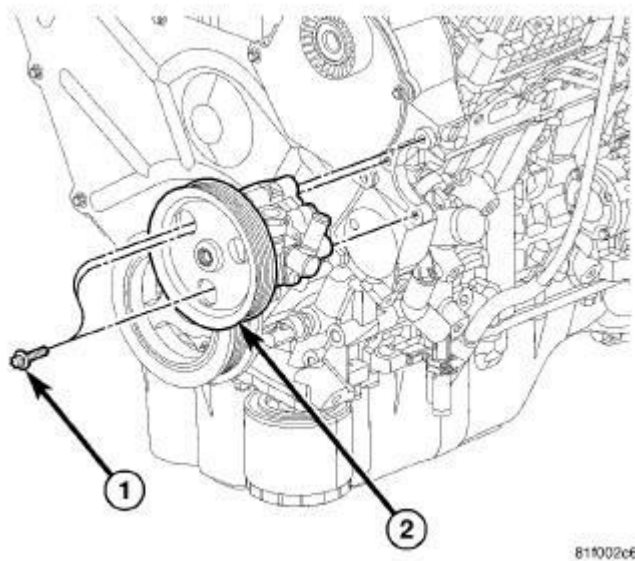
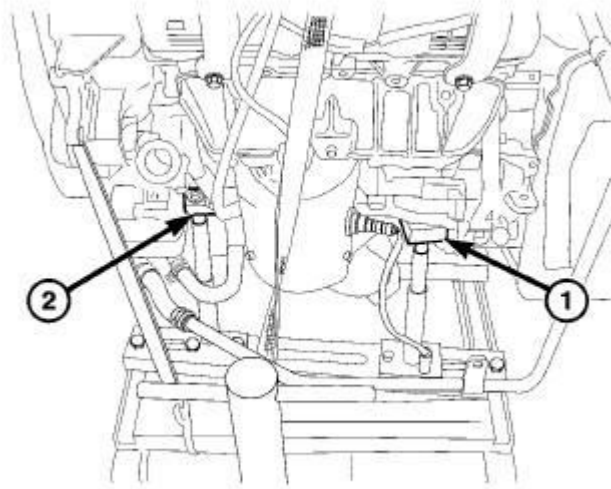


Fig. 41: Power Steering Pump & Reservoir
Courtesy of CHRYSLER LLC

41. Position the power steering pump (2) and reservoir aside in the engine compartment. Avoid opening the power steering system by leaving the power steering lines connected.

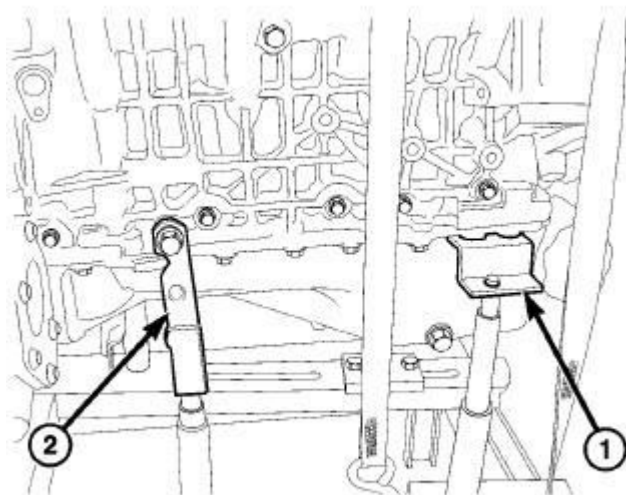


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Fig. 42: Front Engine Fixture Brackets
 Courtesy of CHRYSLER LLC

1 - 8130 ADAPTER
2 - ENGINE CRADLE POST

42. Position vehicle height to allow engine dolly 6135 and cradle 6710A with posts 6848 to be installed under vehicle.
43. Align the front right engine cradle post (2) with the Lift Point Hole in the Engine Block.
44. Align the front left engine cradle post and 8130 support bracket (1) with the lift point hole in the engine block.



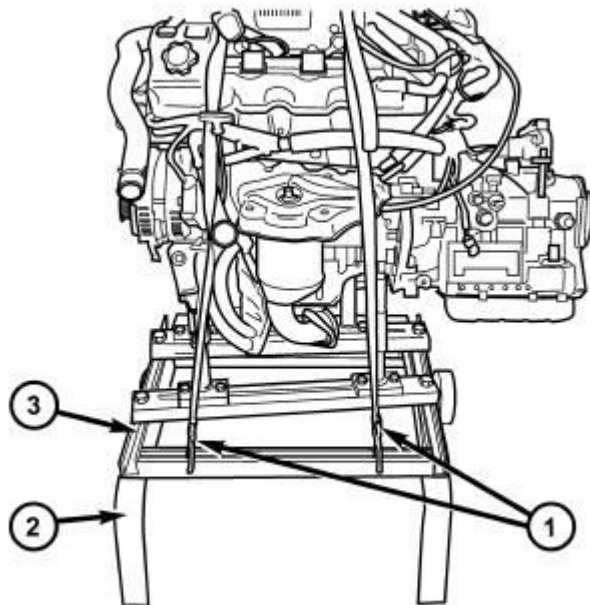
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Fig. 43: Rear Engine Fixture Brackets
 Courtesy of CHRYSLER LLC

1 - 10107-2 ADAPTER

2 - 10107-1 ADAPTER

45. Install 10107-1 Support Bracket (2) in the engine block, and align the left rear engine cradle post with the hole in the support bracket.
46. Install 10107-2 Support Bracket (1) in the engine block, and align the right rear engine cradle post with the hole in the support bracket.



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Fig. 44: ENGINE REMOVAL CRADLE
Courtesy of CHRYSLER LLC

1 - SAFETY STRAPS 2 - SPECIAL TOOL 6135 3 - SPECIAL TOOL 6710

47. Install safety straps (1) so that they securely hold the powertrain assembly in the engine cradle. Tighten the fasteners at the base of each engine cradle post, and verify that the engine cradle posts are fully engaged in the lifting points.
48. Lower vehicle so weight of the engine and transmission ONLY is on the cradle.

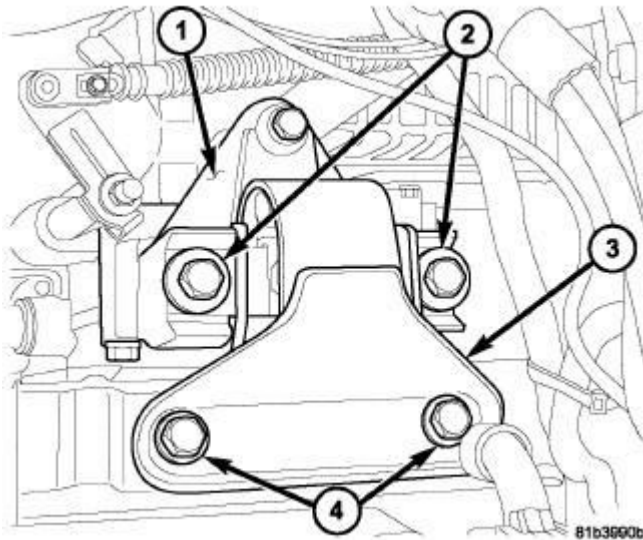


Fig. 45: Identifying Left Engine Mount
 Courtesy of CHRYSLER LLC

49. Remove the left side engine mount bolts (2).

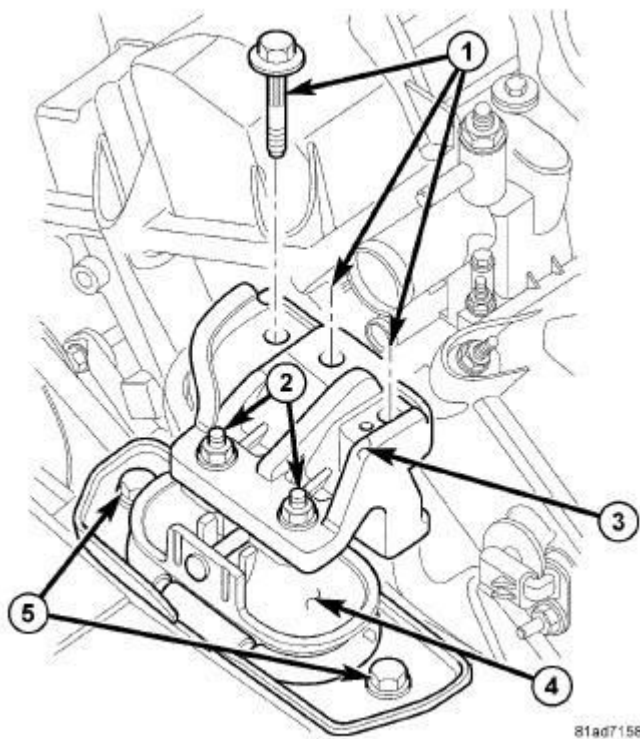


Fig. 46: Right Side Engine Mount Bolts
 Courtesy of CHRYSLER LLC

50. Remove the right side engine mount bolts (1).
51. Slowly raise vehicle in short length spans. Inspect at each interval for potential engine or transaxle contact to vehicle components. Move the cradle/dolly fixture as necessary to allow for removal clearance.