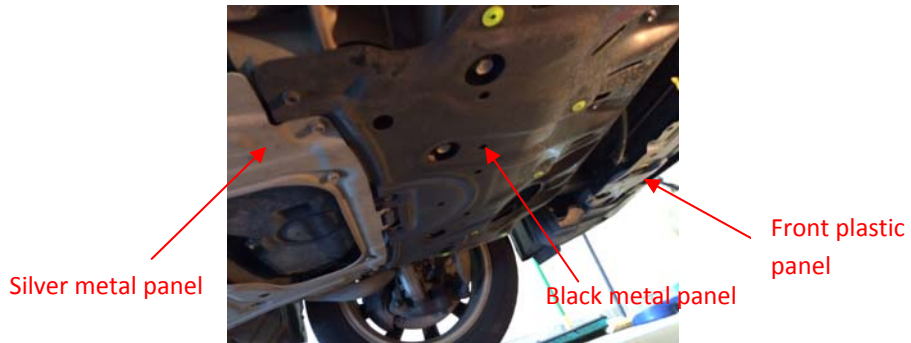
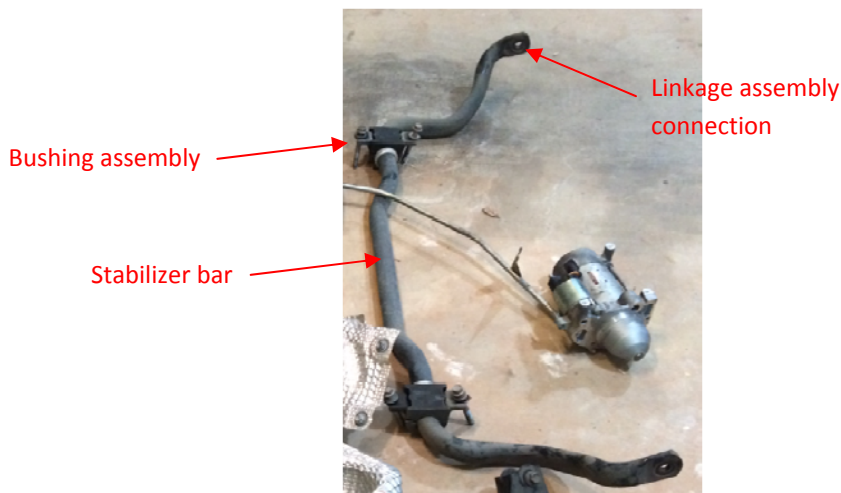


Replacing Starter on Lexus LS460 (Note: please perform at your own risk as these are not official instructions)

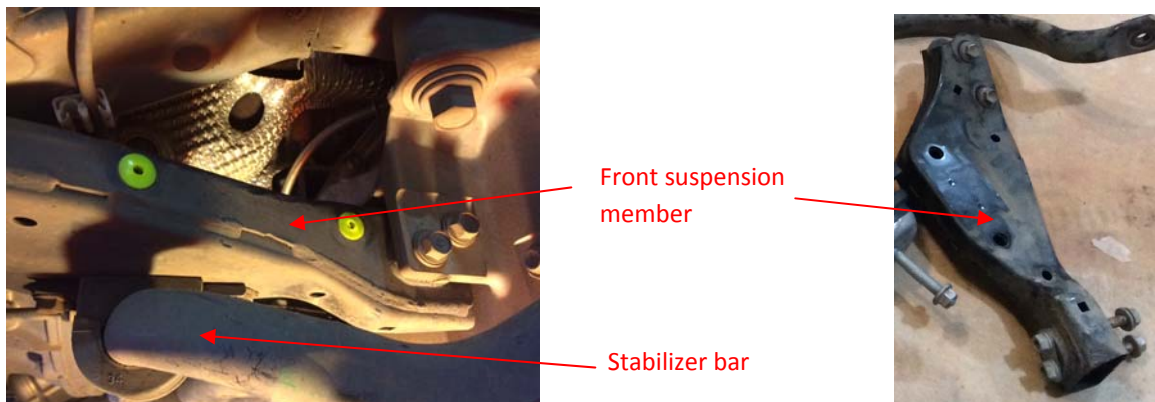
- 1) Jack up front end of car w/support stands, remove the undercover panels & 2 front tires.



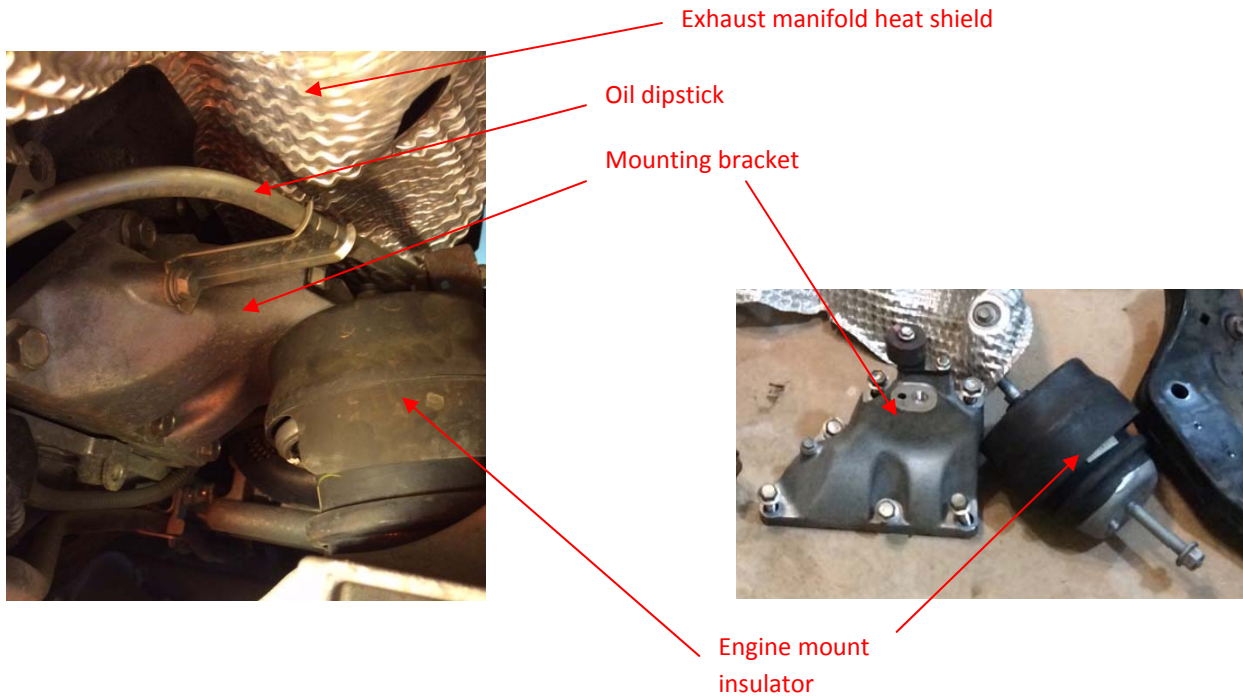
- 2) Remove the stabilizer bar by first removing 2 bolts (torque to 63 ft-lbs when re-installing) that connects end of bar to linkage assembly. Remove the 4 bolts (torque to 70 ft-lbs when re-installing) from the bushing assembly and drop assembly out.



- 3) Remove the passenger side front suspension member by removing the 4 bolts (torque to 37 ft-lbs when re-installing).

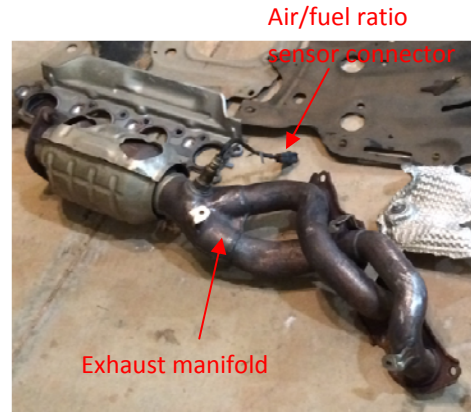
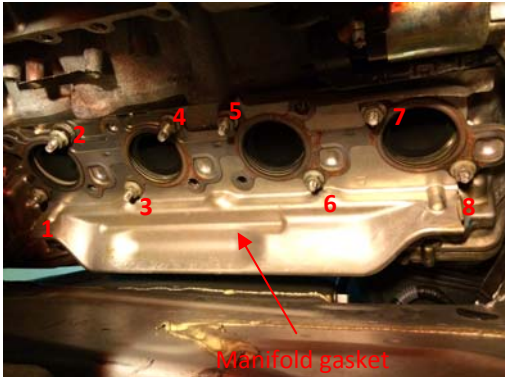


- 4) Remove 2 bolts that hold oil dipstick assembly and wiggle out and remove.
- 5) Next step is to remove the engine mount insulator assembly on the passenger side. Before doing this, place a jack underneath engine transmission for support. Start by removing the nut (torque to 26 ft-lbs when re-installing) on top of the engine mount insulator. There's very little room on top so you will need to feel for it. Follow this by removing the bottom nut (torque to 52 ft-lbs when re-installing). After this you will loosen the mounting bracket to the engine by removing the 6 bolts.



- 6) Once the engine mount insulator and mounting bracket assembly is loose, remove the mounting bracket by sliding it off the top stud of the engine mount insulator. You may need to jack up the engine as described in step #5 to give you some additional clearance to do this. Once the mounting bracket is removed, you should be able to take out the engine mount insulator.
- 7) Remove the exhaust manifold heat shield by unbolting the 3 bolts (torque to 7 ft-lbs when re-installing).
- 8) Disconnect the air/fuel ratio sensor connector. It's a tight space so be careful not to break the connector as you're trying to pull it out with one hand.

- 9) Remove the 8 nuts (replace with new nuts OEM P/N 94151-80841 & torque to 15 ft-lbs when re-installing in the number sequence as shown below) from the exhaust manifold to engine head connection and the 2 bolts (torque to 29 ft-lbs when re-installing) from the exhaust to pipe flange connection. Remove the manifold to head gasket (replace with new gasket OEM P/N 17173-38030) & donut gasket (replace with new gasket OEM P/N 90917-06078) from the pipe flange.



- 10) Remove the 3 bolts (torque to 7 ft-lbs when re-installing) on the heat shield that covers the starter.
- 11) You should be able to see the starter at this point. Remove the 2 bolts (torque to 27 ft-lbs when re-installing) on the gear side of the starter (towards back side of engine). Open terminal cap and remove 2 nuts (torque to 7 ft-lbs when re-installing). Disconnect the starter connector and remove the starter (note: it may be easier to slowly remove the starter assembly out first while holding one hand and then disconnecting the connector as it may be difficult to reach hand around back to disconnect when the starter is not removed).

