

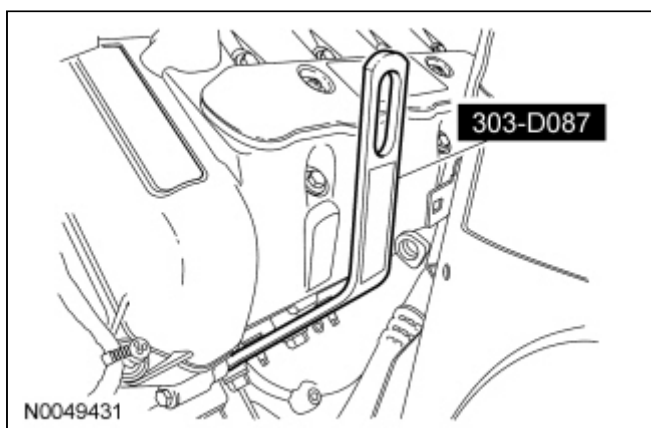
Subframe — Front, 5.4L

Special Tool(s)

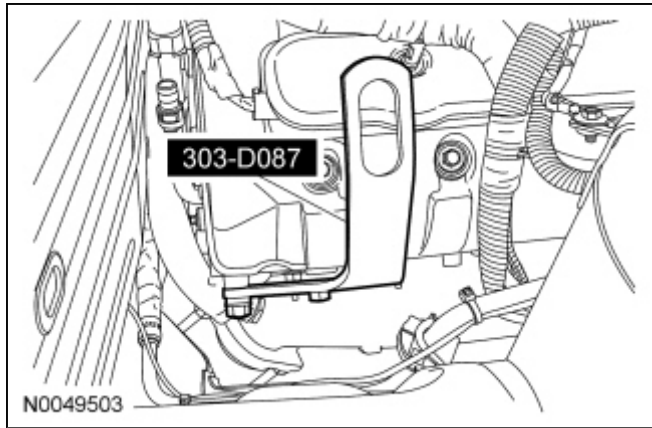
 ST1603-A	Lifting Bracket, Engine (2 required) 303-D087 (D93P-6001-A1)
 ST2176-B	Support Bar, Engine 303-F070
 ST2425-A	Support Bar, Engine 303-F072

Removal and Installation

1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to [Section 100-02](#).
2. Remove the battery and tray. For additional information, refer to [Section 414-01](#).
3. Remove the air cleaner outlet pipe. For additional information, refer to [Section 303-12](#).
4. Install the Engine Lifting Bracket.



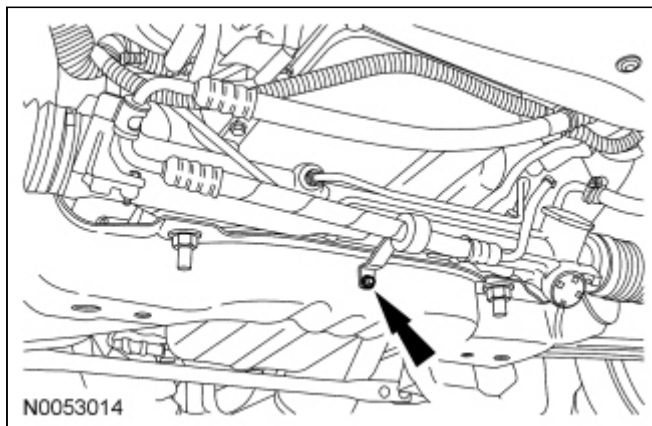
5. Install the Engine Lifting Bracket.



6. Remove the LH and RH engine insulator nuts.
 - To install, tighten to 55 Nm (41 lb-ft).
7. **NOTE:** The heavy duty Engine Support Bar (303-F072) must be used with the draw screws from the light duty Engine Support Bar (303-F070). This will provide enough clearance between the supercharger (SC311) and the Engine Support Bar (303-F072) and enough clearance between the draw screw and the vehicle hood.

Install the Engine Support Bar and raise the engine.

8. Remove and discard the lower steering column coupling bolt.
 - To install, tighten to 25 Nm (18 lb-ft).
9. Remove the power steering line support bracket bolt.
 - To install, tighten to 11 Nm (97 lb-in).



10. **NOTICE:** Support the steering gear with safety wire or damage to the steering gear may occur.

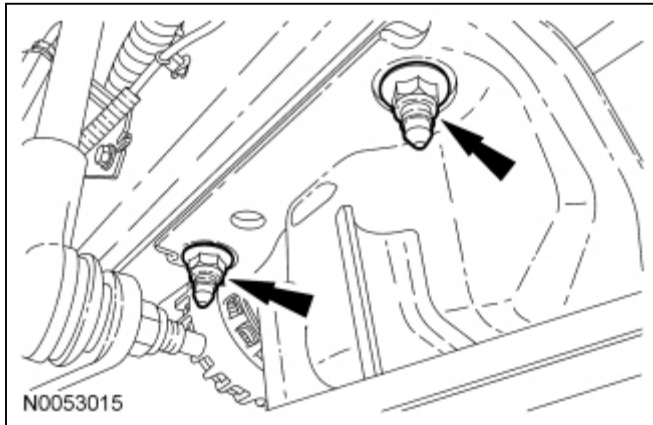
NOTE: The engine must be lifted enough to allow the LH bolt to be removed.

NOTE: The steering gear must be secured loosely with safety wire to allow subframe removal.

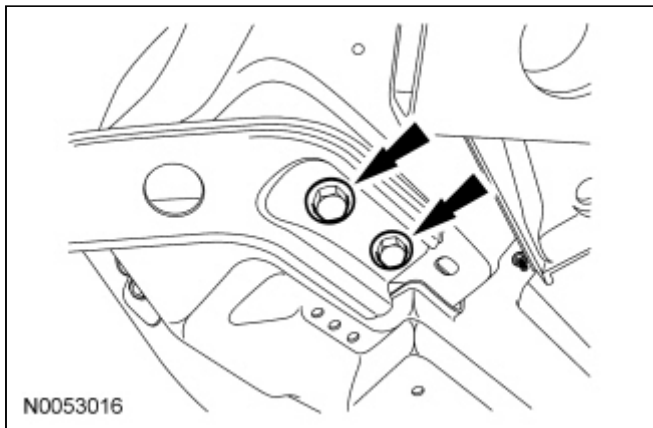
Remove the 2 steering gear bolts and position the steering gear aside.

- To install, tighten to 115 Nm (85 lb-ft).
11. Remove the 2 lower ball joint nuts and bolts.
 - To install, tighten to 103 Nm (76 lb-ft).
 12. Separate the 2 lower ball joints from the steering knuckles.
 13. Support the subframe.

14. Remove the 4 front subframe bolts.
 - To install, tighten to 115 Nm (85 lb-ft).



15. Remove the 4 front subframe nuts.
 - To install, tighten to 115 Nm (85 lb-ft).



16. **NOTE:** Two technicians are required to carry out this step.

Lower and remove the front subframe.

17. **NOTE:** Using a suitable alignment tool with a 15 mm (0.59 in) OD shaft that is long enough to go through the subframe and body. Align the subframe to the body before tightening the subframe bolts and nuts to specification.

To install, reverse the removal procedure.
