

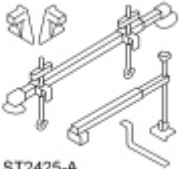


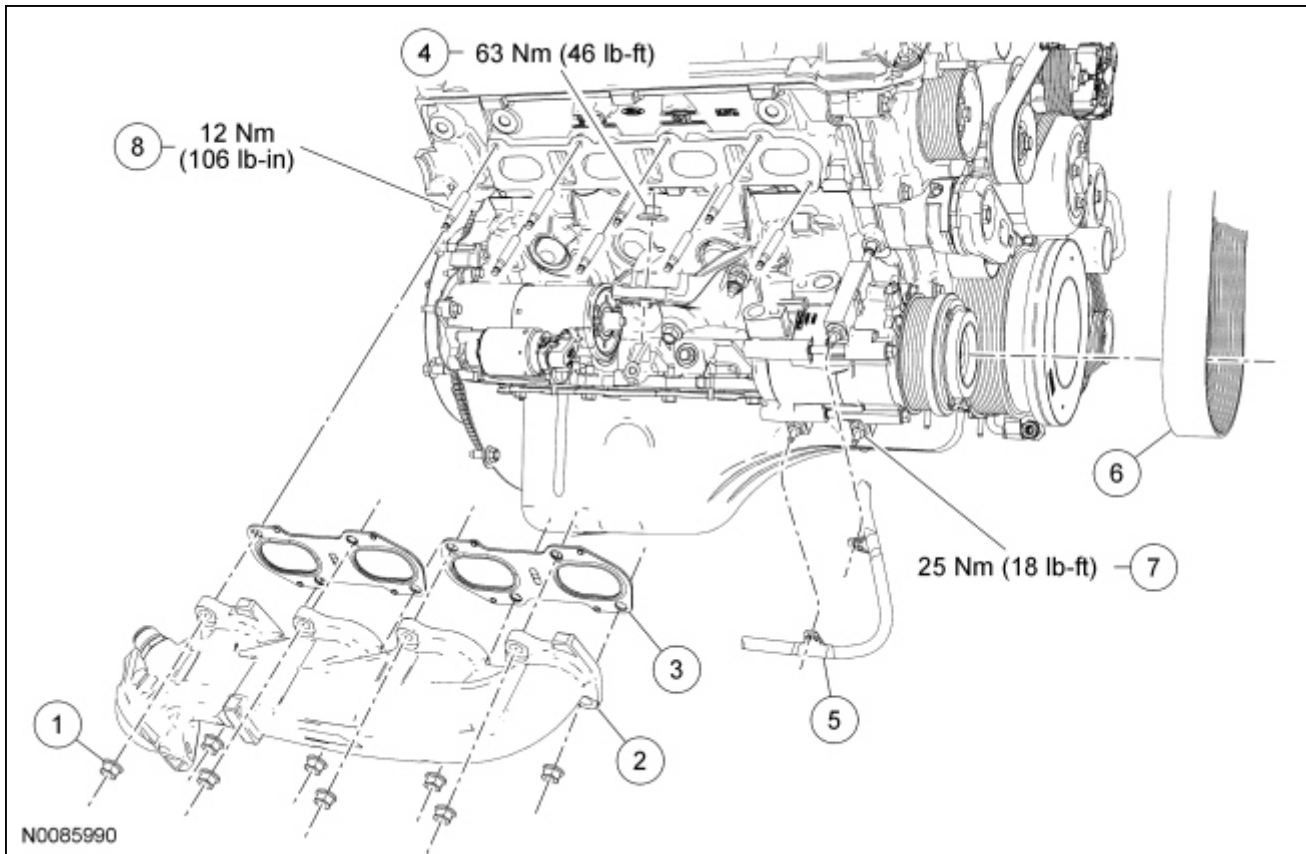
## Exhaust Manifold — RH

### Special Tool(s)

 <p>ST1603-A</p>	<p>Lifting Bracket, Engine                  303-D087 (D93P-6001-A1) or                  equivalent</p>
 <p>ST2176-B</p>	<p>Support Bar, Engine                  303-F070</p>
 <p>ST2425-A</p>	<p>Support Bar, Engine                  303-F072</p>

### Material

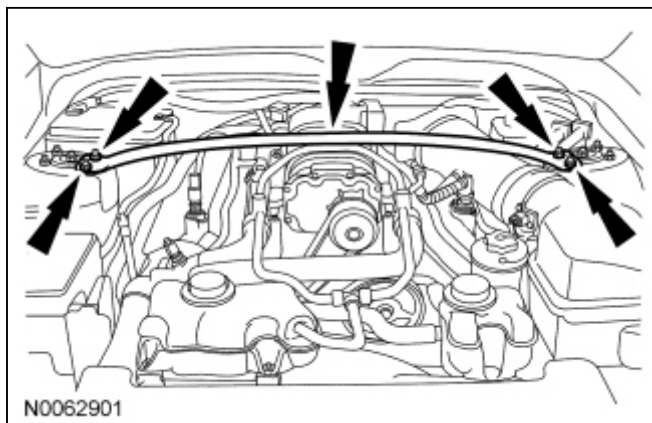
Item	Specification
<p>Motorcraft® Metal Surface Prep                  ZC-31-A</p>	<p>—</p>



Item	Part Number	Description
1	W701706	RH exhaust manifold nut (8 required)
2	9428	RH exhaust manifold
3	9Y431	RH exhaust manifold gasket (2 required)
4	W712530	RH engine support insulator nut
5	—	Wiring harness retainer (part of 12B637)
6	8620	Supercharger (SC) drive belt
7	W707821	A/C compressor stud bolt (3 required)
8	W707747	RH exhaust manifold stud (8 required)

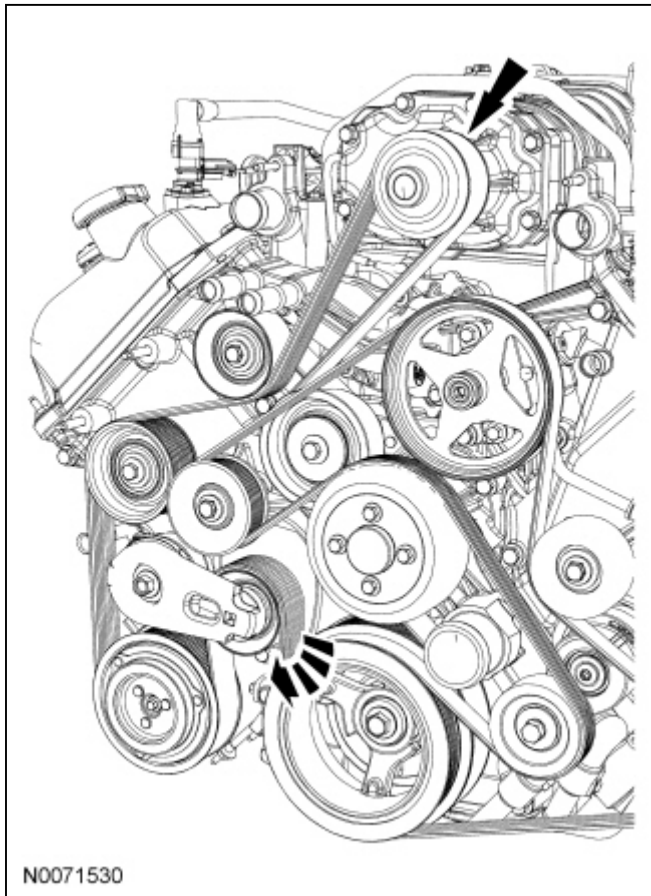
## Removal

1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, refer to [Section 100-02](#).
2. Remove the 4 nuts and the strut tower cross brace.

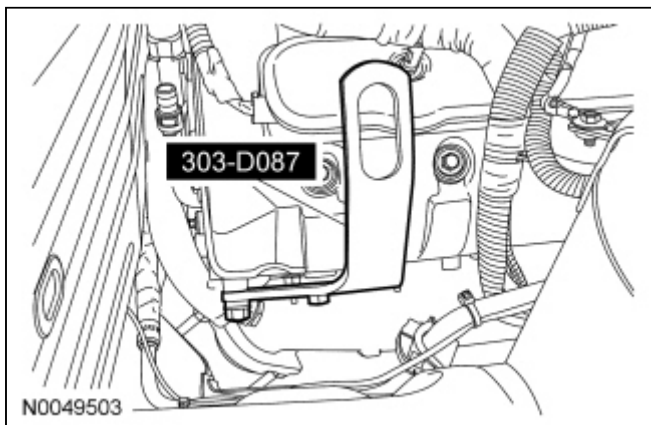


3. Remove the EGR tube. For additional information, refer to [Section 303-08](#).

4. Remove the catalytic converter. For additional information, refer to [Section 309-00](#).
5. Rotate the Supercharger (SC) drive belt tensioner clockwise and remove the drive belt from the [SC](#) drive pulley.



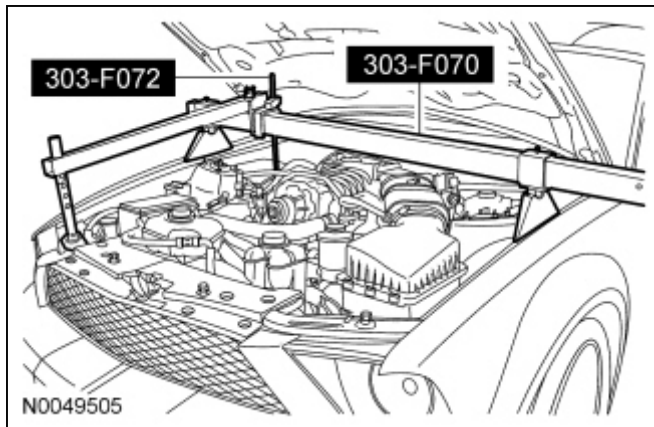
6. Install the Engine Lifting Bracket.



7. **NOTE:** The heavy duty Engine Support Bar (303-F070) must be used with the draw screws from the light duty Engine Support Bar (303-F072). This will provide enough clearance between the [SC](#) and the Engine Support Bar, and enough clearance between the draw screw and the vehicle hood.

Install the Engine Support Bars.

- Remove the RH engine support insulator nut.
- Using the Engine Support Bars, raise the RH side of the engine.



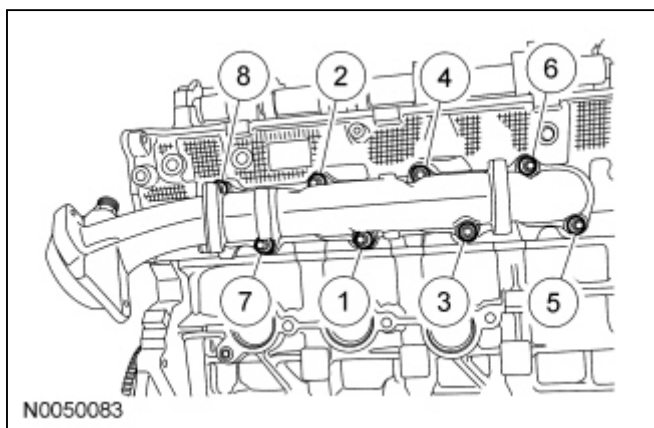
8. Remove the SC drive belt from the A/C compressor pulley.
9. Remove the wiring harness retainers from the A/C compressor stud bolts and position the wiring harness aside.
10. **NOTE:** The A/C compressor stud bolts must be loosened to gain access to the RH exhaust manifold nuts.  
Loosen the A/C compressor stud bolts 25 mm (0.98 in).
11. Remove the 8 nuts and the RH exhaust manifold.
  - Discard the nuts and gaskets.
12. Clean and inspect the RH exhaust manifold. For additional information, refer to [Section 303-00](#).
13. Remove and discard the 8 RH exhaust manifold studs.

### Installation

1. **NOTICE: Do not use metal scrapers, wire brushes, power abrasive discs or other abrasive means to clean the sealing surfaces. These tools cause scratches and gouges which make leak paths. Use a plastic scraping tool to remove all traces of old sealant.**

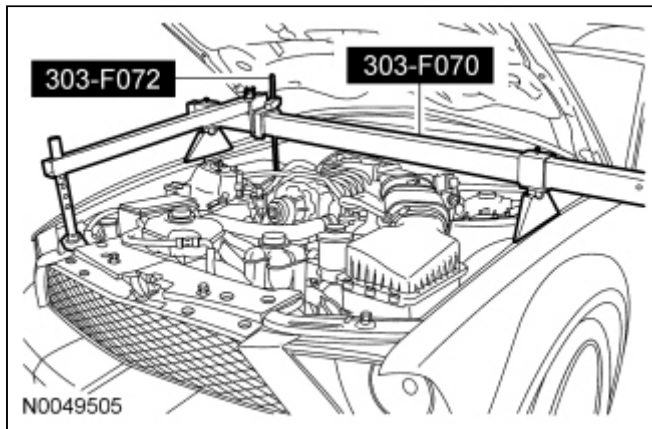
Clean the exhaust manifold mating surface of the cylinder head with metal surface prep. Follow the directions on the packaging.

2. Install the 8 new RH exhaust manifold-to-cylinder head studs.
  - Tighten to 12 Nm (106 lb-in).
3. Install new gaskets, the RH exhaust manifold and 8 new nuts.
  - Tighten in the sequence shown to 20 Nm (177 lb-in).

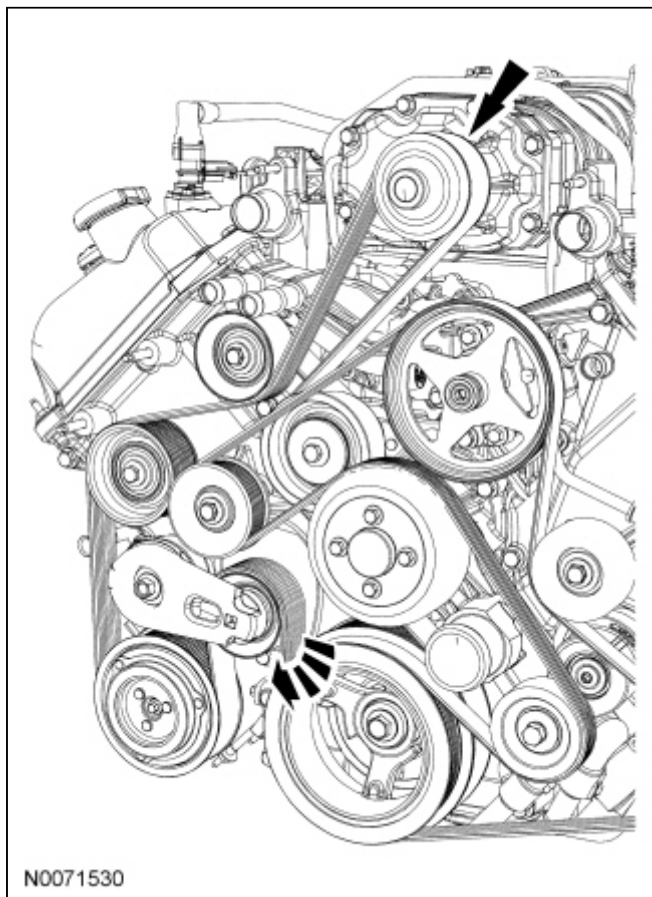


4. Tighten the A/C compressor stud bolts to 25 Nm (18 lb-ft).

5. Install the wiring harness retainers onto the A/C compressor stud bolts.
6. Position the [SC](#) drive belt onto the A/C compressor pulley.
7. Using the Engine Support Bars, lower the engine onto the engine support insulator.



8. Install the RH engine support insulator nut.
  - Tighten to 63 Nm (46 lb-ft).
9. Rotate the [SC](#) drive belt tensioner clockwise and install the drive belt onto the [SC](#) drive pulley.



10. Install the catalytic converter. For additional information, refer to [Section 309-00](#).
11. Install the EGR tube. For additional information, refer to [Section 303-08](#).
12. Install the strut tower cross brace and the 4 nuts.
  - Tighten to 35 Nm (26 lb-ft).

