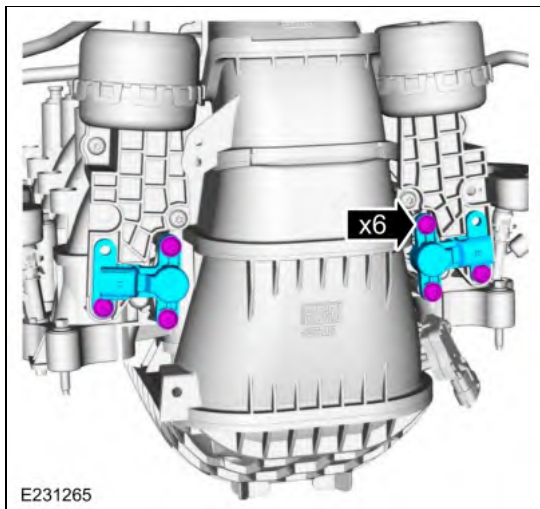


Intake Manifold Assembly

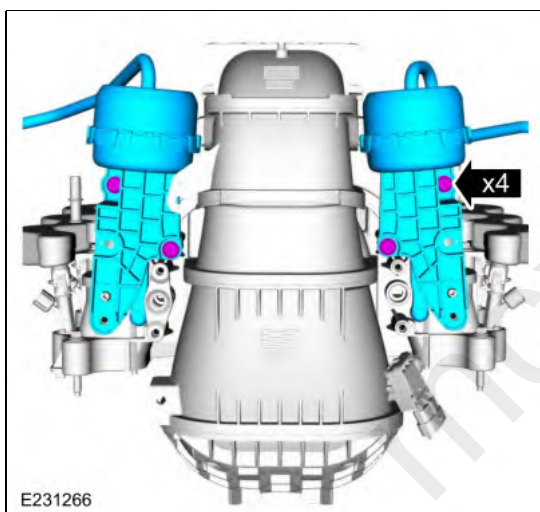
DISASSEMBLY

NOTICE: During engine repair procedures, cleanliness is extremely important.

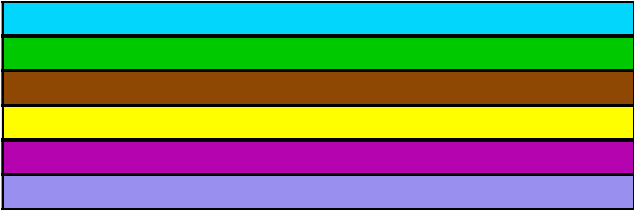
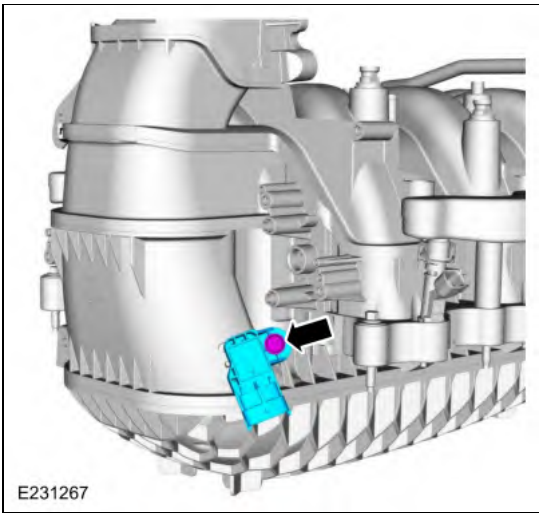
1. Remove the bolts and the actuator sensors.



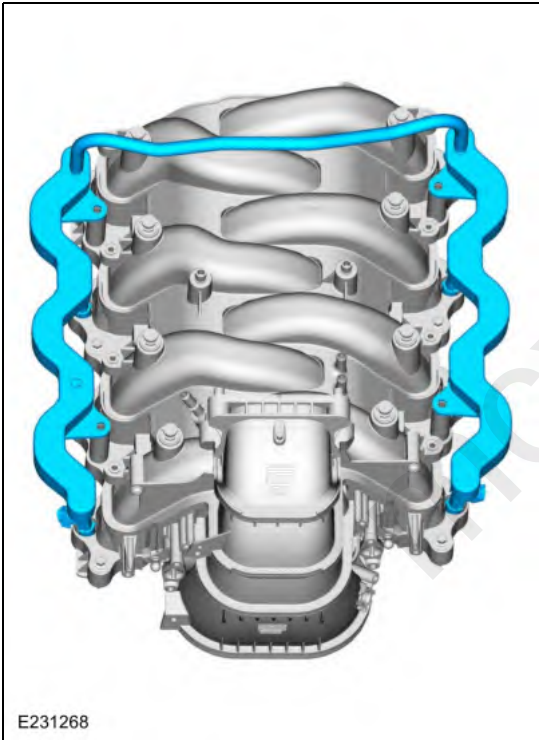
2. Remove the bolts and the actuator assemblies.



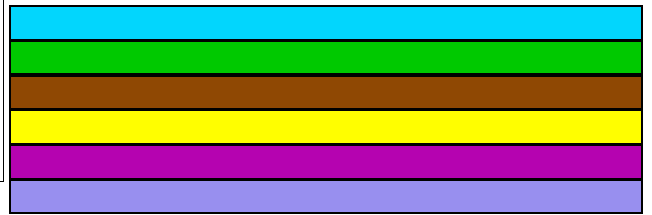
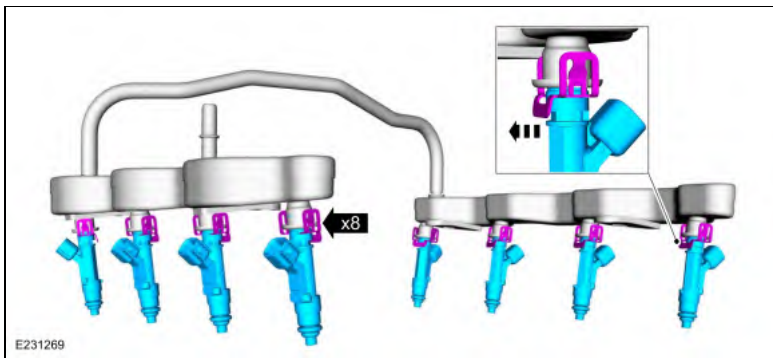
3. Remove the bolt and the MAP sensor.



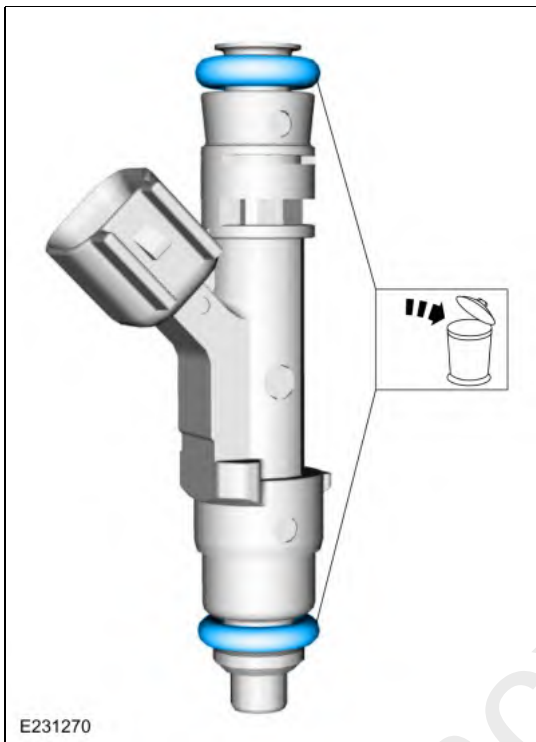
4. Remove the fuel rail and injectors as an assembly.



5. Remove the fuel injector-to-fuel rail clips and separate the fuel injectors from the fuel rail.



6. Discard the upper and lower fuel injector O-ring seals.



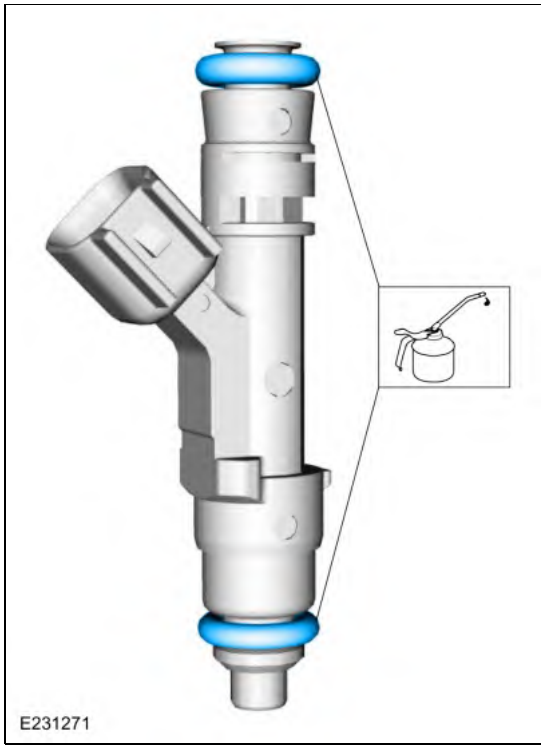
ASSEMBLY

NOTICE: If the engine is repaired or replaced because of upper engine failure, typically including valve or piston damage, check the intake manifold for metal debris. If metal debris is found, install a new intake manifold. Failure to follow these instructions can result in engine damage.

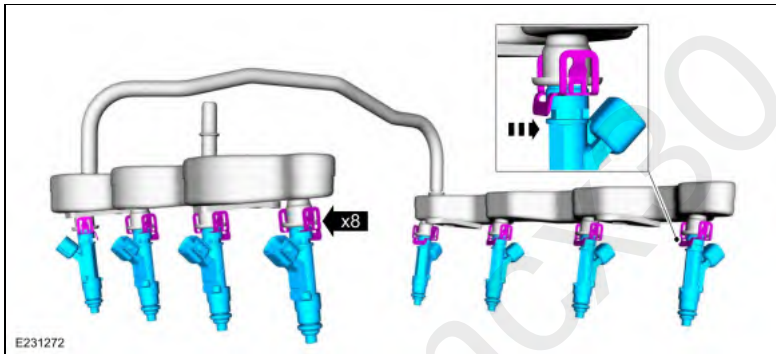
1. **NOTICE:** Use O-ring seals that are made of special fuel-resistant material. Use of ordinary O-rings can cause the fuel system to leak. Do not reuse the O-ring seals.

NOTE: Lubricate the new O-ring seals with clean engine oil prior to installation.

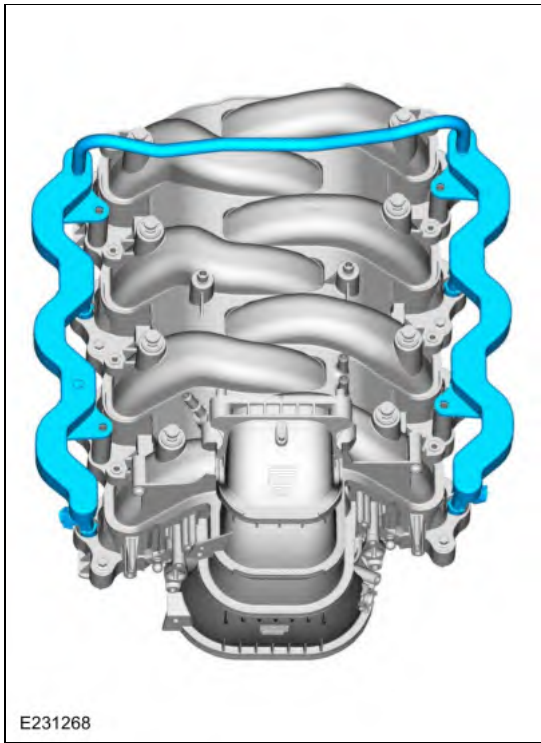
Install the new O-ring seals on each of the fuel injectors and lubricate with clean engine oil.



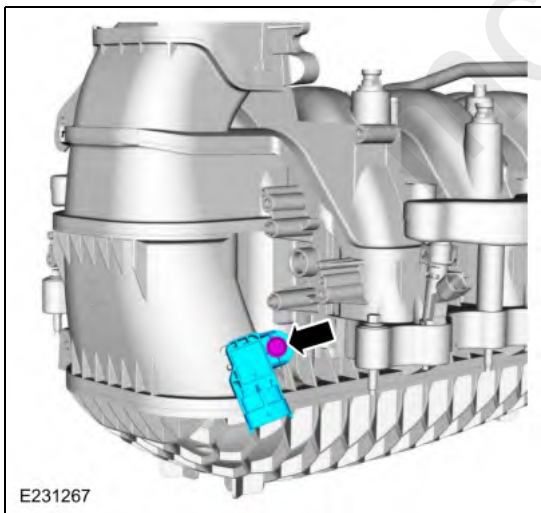
2. Assemble the fuel injectors onto the fuel rail and install the clips.



3. Install the fuel rail and fuel injectors as an assembly on the intake manifold.



4. Install the MAP sensor and the bolt.
Torque: 62 lb.in (7 Nm)



5. Install the actuator assemblies and the bolts.
Torque: 62 lb.in (7 Nm)

