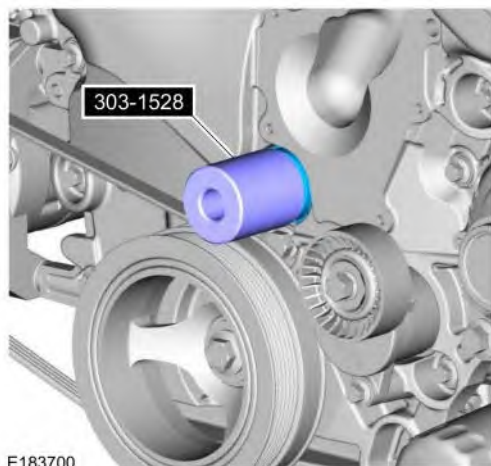
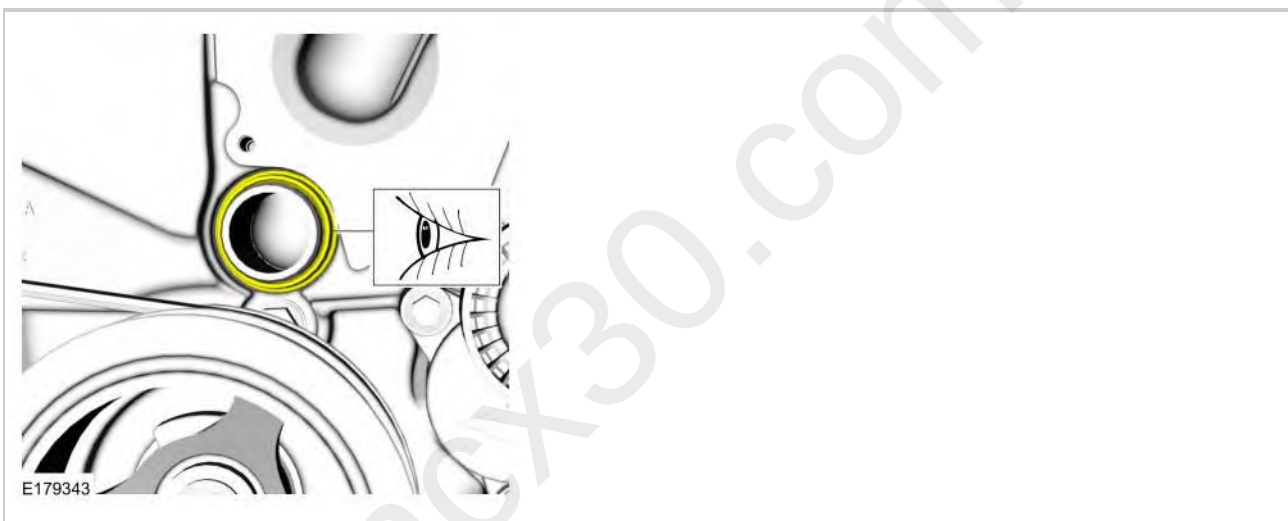




2.

Inspect the front cover to coolant pipe seal for proper installation or damage.



3.

Install the coolant pump. Refer to: COOLANT PUMP .

REMOVAL AND INSTALLATION > LOWER INTAKE MANIFOLD > REMOVAL



NOTE: During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces that enters the oil passages, coolant passages or the oil pan, can cause engine failure.



NOTE: It is not necessary to remove the fuel rail from the intake manifold assembly.

1.

With the vehicle in NEUTRAL, position it on a hoist. Refer to: Jacking and Lifting - Overview .

2.

Release the fuel system pressure. Refer to: FUEL SYSTEM PRESSURE RELEASE .

3.

Disconnect the battery ground cable. Refer to: Battery Disconnect and Connect .

4.

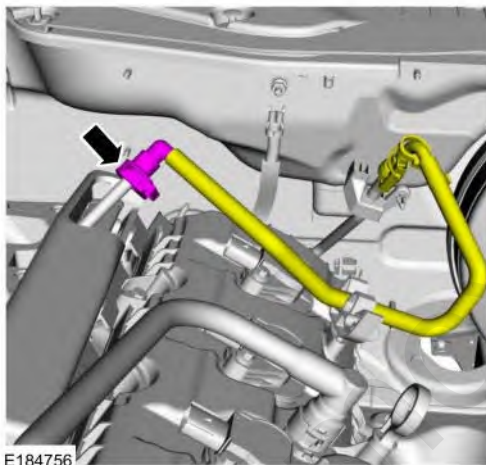
Drain the cooling system. Refer to: COOLING SYSTEM DRAINING AND VACUUM FILLING .

5.

Remove the upper intake manifold. Refer to: Upper Intake Manifold .

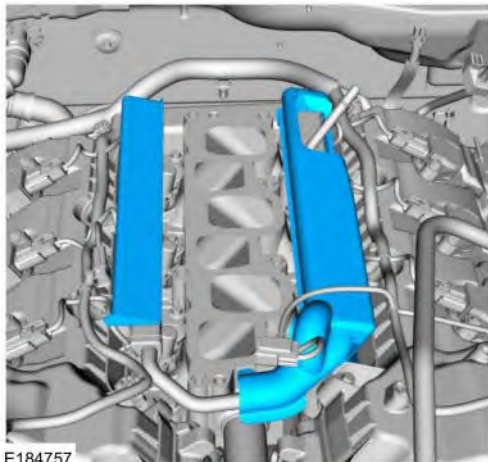
6.

Disconnect the fuel tube quick release coupling. Refer to: QUICK RELEASE COUPLING .



7.

Remove the fuel rail sound insulators.

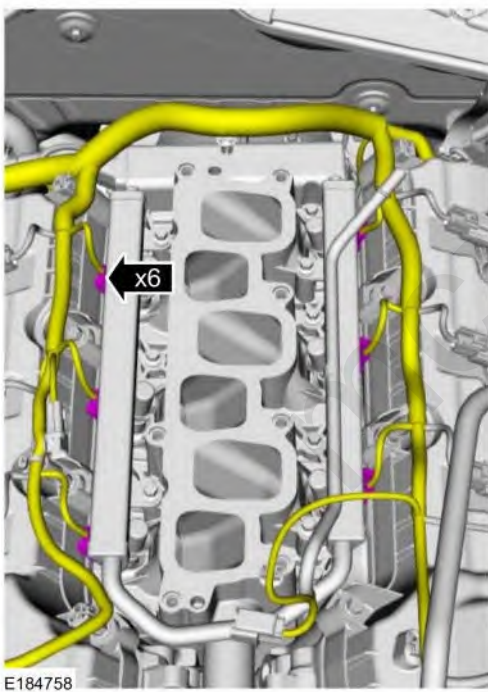


8.

Remove the thermostat housing. Refer to: THERMOSTAT HOUSING .

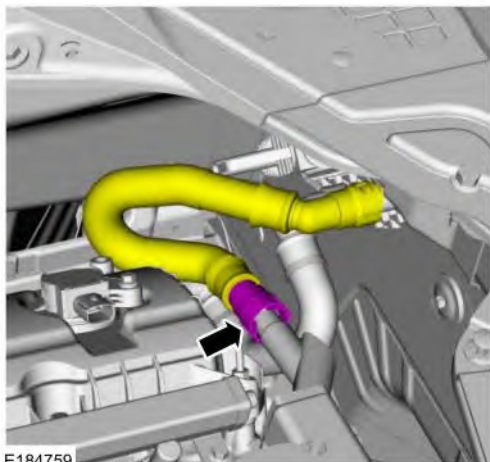
9.

Disconnect the fuel injector electrical connectors.



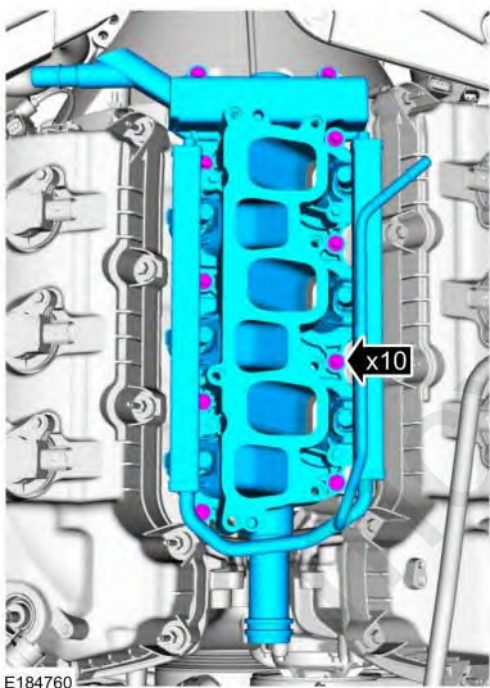
10.

Disconnect the coolant tube from the back of the lower intake manifold.



11.

Remove the bolts and the lower intake manifold.



12.

Remove and discard the lower intake manifold gaskets.

Clean and inspect all sealing surfaces.