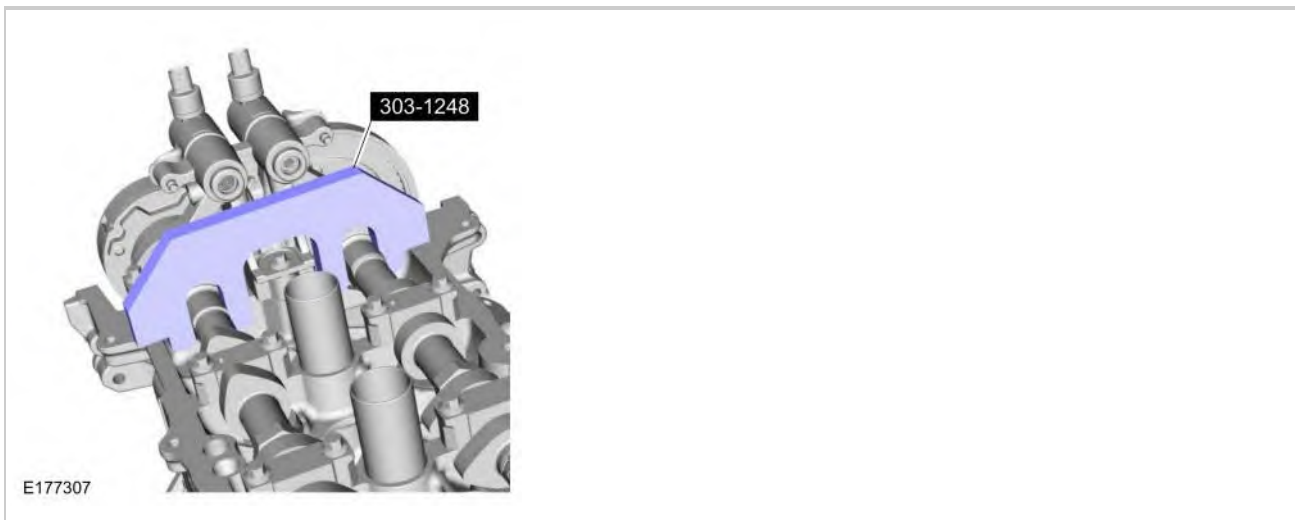


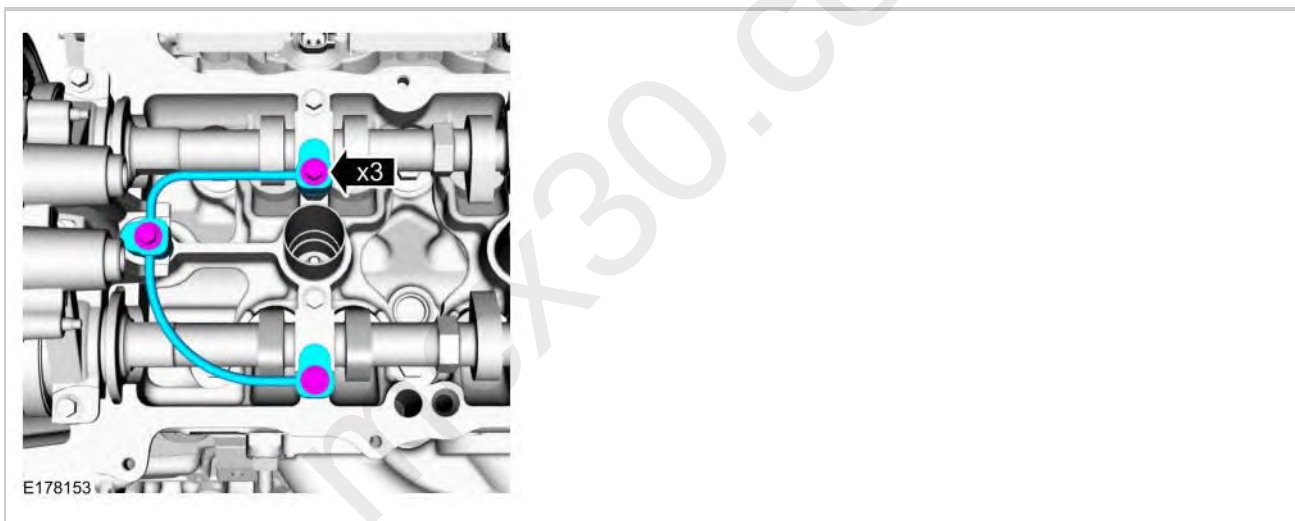


35.

Install the LH oil tube and the bolts.

Torque

: Stage 1: 71 lb.in (8 Nm) Stage 2: 45 °



36.

Install the engine front cover. Refer to: Engine Front Cover .

REMOVAL AND INSTALLATION > UPPER INTAKE MANIFOLD

Special Tool(s) / General Equipment

Hose Clamp Remover/Installer

REMOVAL AND INSTALLATION > UPPER INTAKE MANIFOLD > REMOVAL

 **NOTE:** 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.

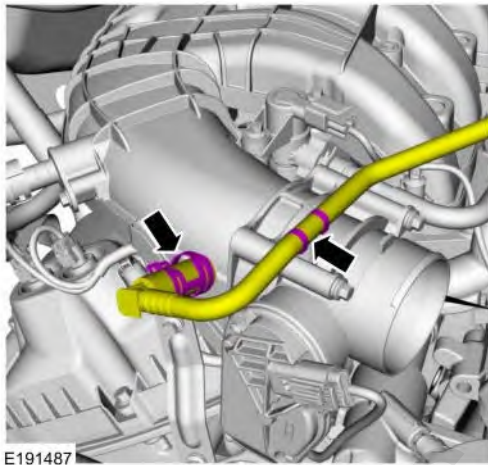
1.

Remove the air cleaner outlet pipe. Refer to: AIR CLEANER OUTLET PIPE .

2.

Disconnect the vacuum hose from the upper intake manifold. Use the General Equipment: Hose Clamp Remover/Installer

Detach the vacuum hose retainer from the throttle body.

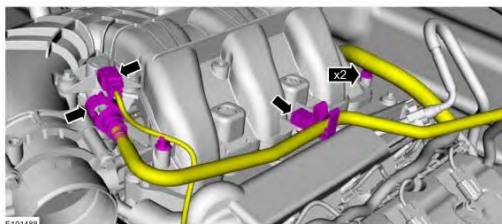


3.

Disconnect the EVAP purge valve electrical connector.

Detach the wiring harness retainers.

Disconnect the EVAP purge valve quick release coupling and retainer. Refer to: QUICK RELEASE COUPLING .

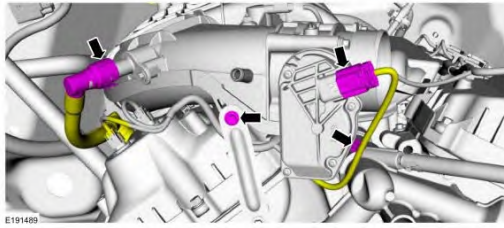


4.

Disconnect the PCV tube from the upper intake manifold and position aside.

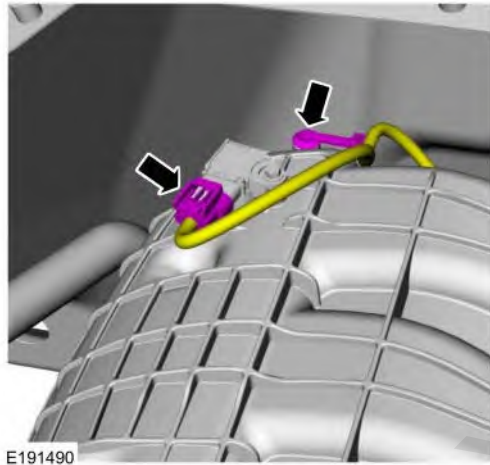
Remove the upper intake manifold support bolt.

Disconnect the throttle body electrical connector and wire harness retainer.



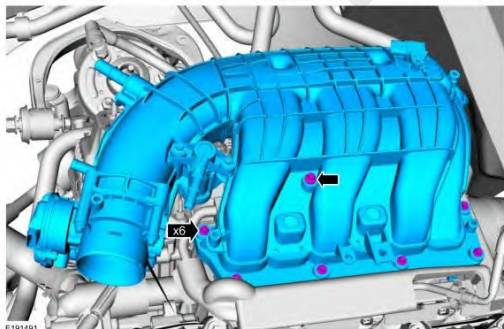
5.

Disconnect the MAP sensor electrical connector and wiring harness retainer.



6.

Remove the bolts and the upper intake manifold.



7.

Remove and discard the upper intake manifold gaskets.

Clean and inspect all of the sealing surfaces of the upper and lower intake manifold.