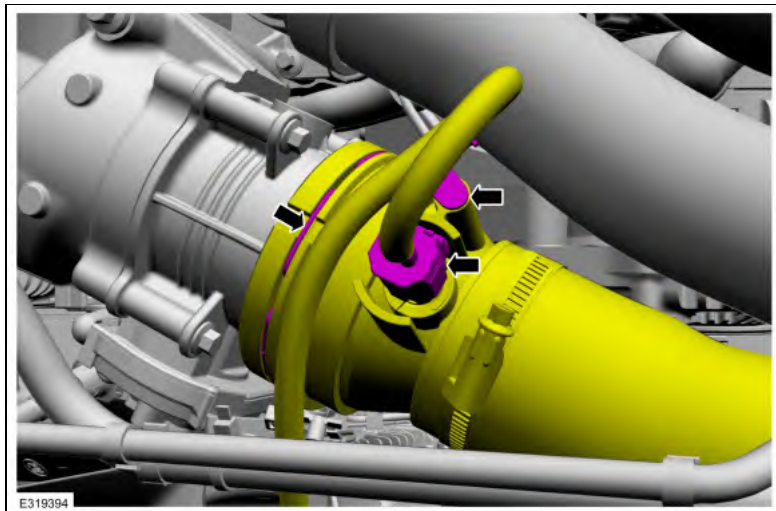


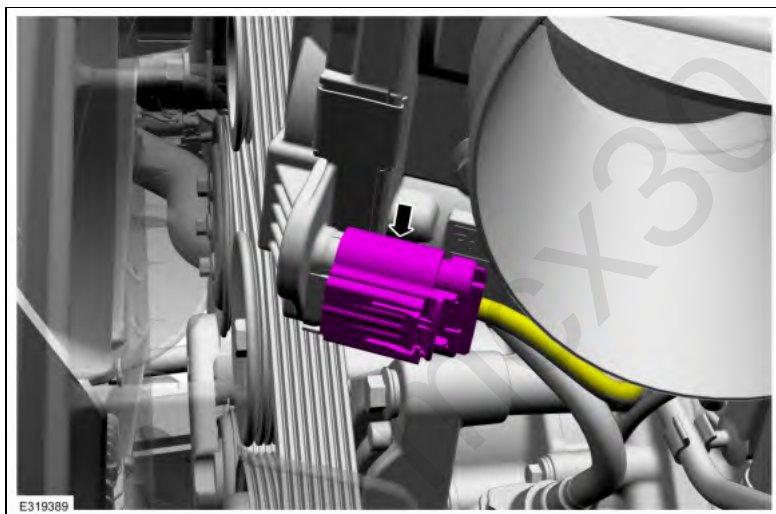
Throttle Body

Removal

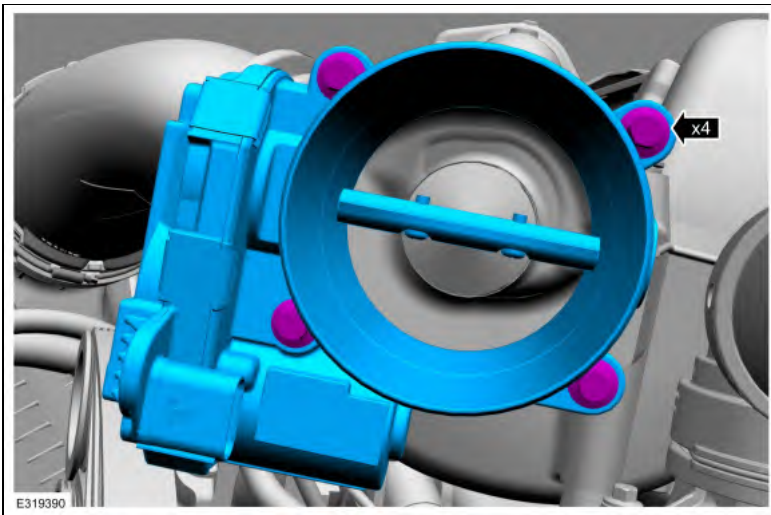
1.
 1. Disconnect the electrical connector, then detach the wire harness retainer.
 2. Release the charge air cooler outlet tube retaining clip, then disconnect the charge air cooler outlet tube from the throttle body and move out of the way.



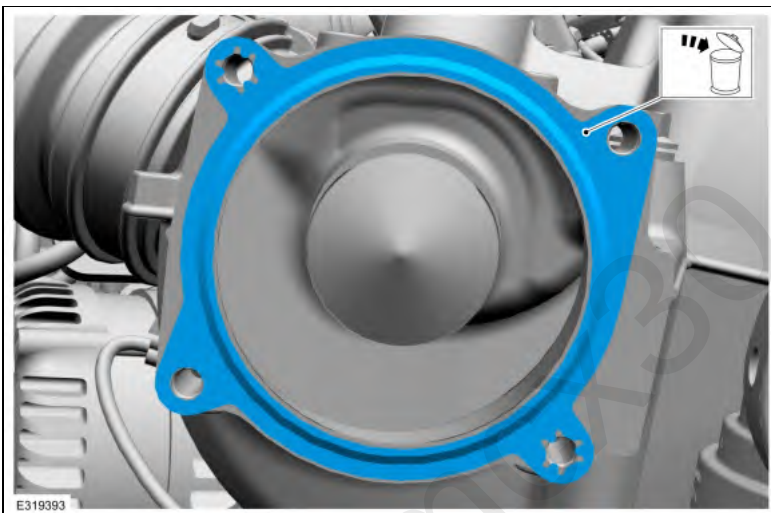
2. Disconnect the throttle body electrical connector.



3. Remove the throttle body retaining bolts, then remove the throttle body.



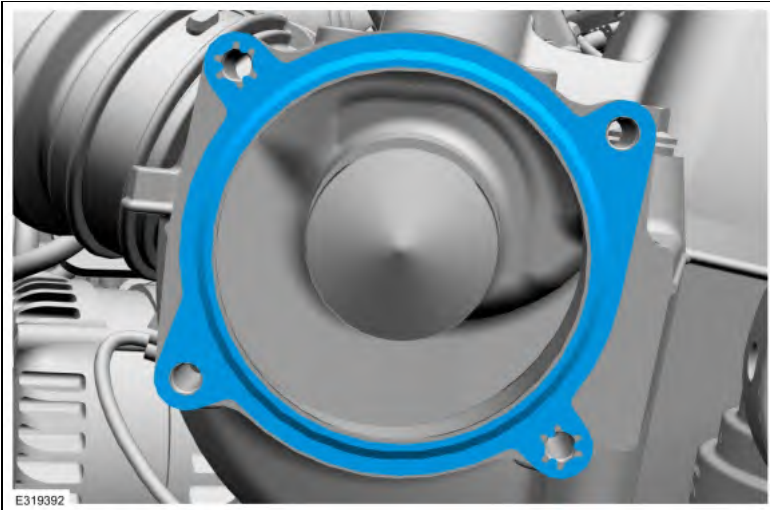
4. Remove and discard the throttle body gasket.



Installation

NOTICE: Make sure that the mating faces are clean and free of foreign material.

1. Clean the mating surfaces, then install the new throttle body gasket.

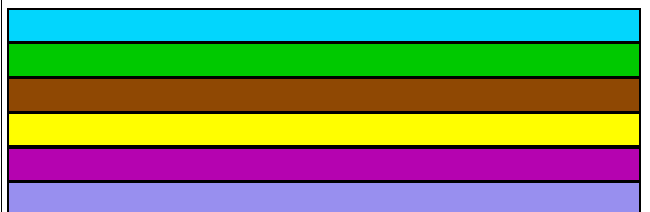
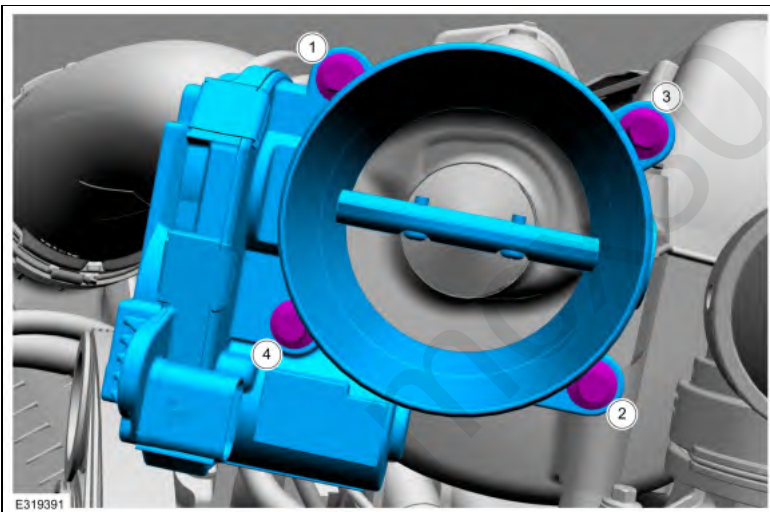


2. Install the throttle body, then install and tighten the throttle body retaining bolts in the following stages and in the sequence shown.

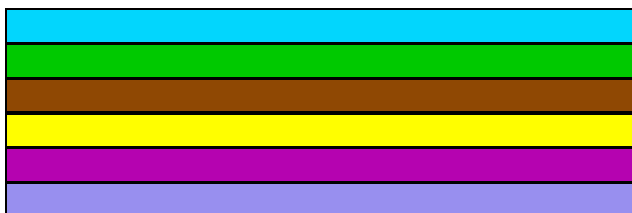
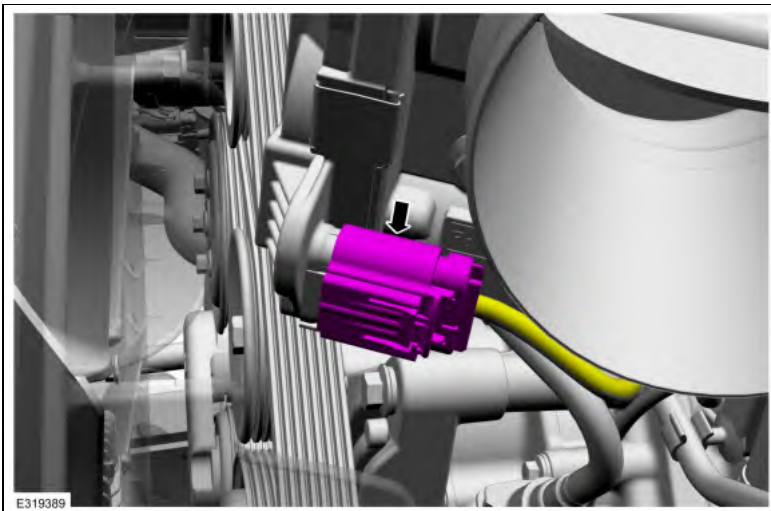
Torque:

Stage 1: Tighten to: : 89 lb.in (10 Nm)

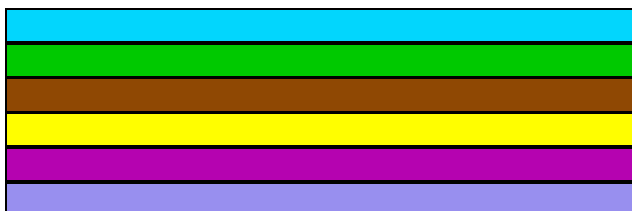
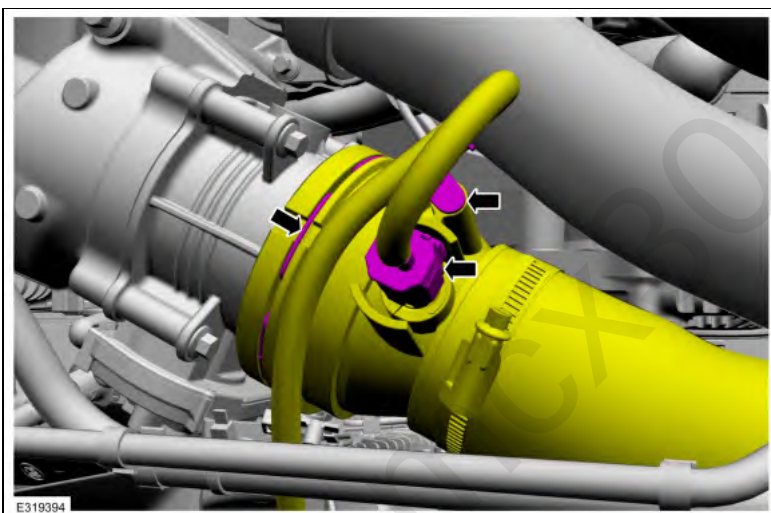
Stage 2: Tighten an additional: : 45°



3. Connect the throttle body electrical connector.



4.
 1. Connect the charge air cooler outlet tube to the throttle body.
 2. Connect the electrical connector, then attach the wire harness retainer.



5. Perform the PCM adaptive value reset for the throttle body.
 - Turn the ignition key ON without cranking the engine.
 - Turn the ignition key OFF.
 - Wait 30 seconds for the PCM to reset the adaptive values for the throttle body.
 - Start the engine.

6. **NOTE:** This step is required only when a new throttle body is being installed.

After the new throttle body is installed, using a diagnostic scan tool, perform the following:

- Reset/clear the specified function for the EGR throttle.
- Clear the continuous PCM DTC's and reset the emissions monitors' information in the PCM. Refer to Section 2 of the PC/ED manual.

