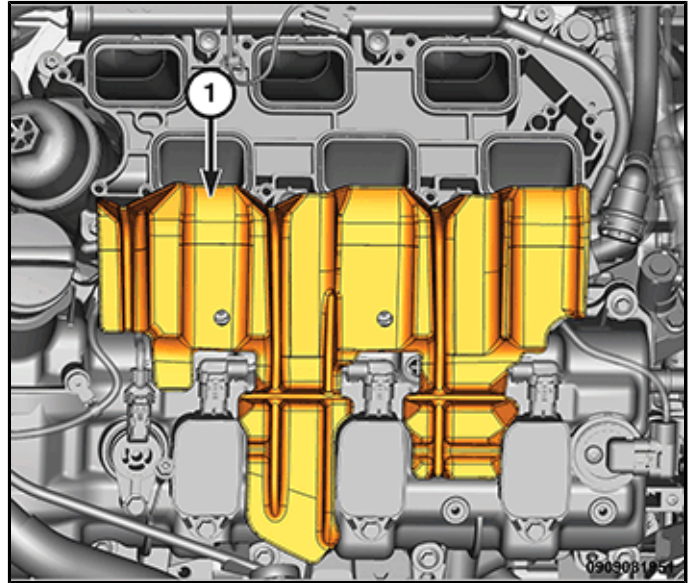


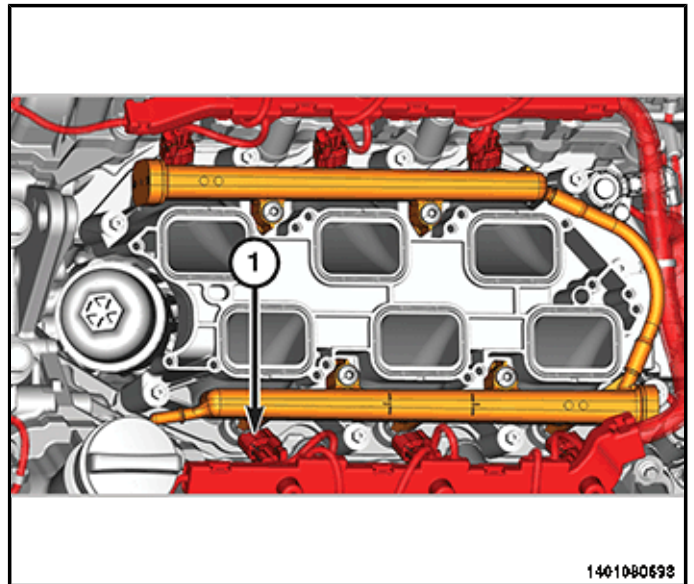
## LOWER INTAKE MANIFOLD

### REMOVAL

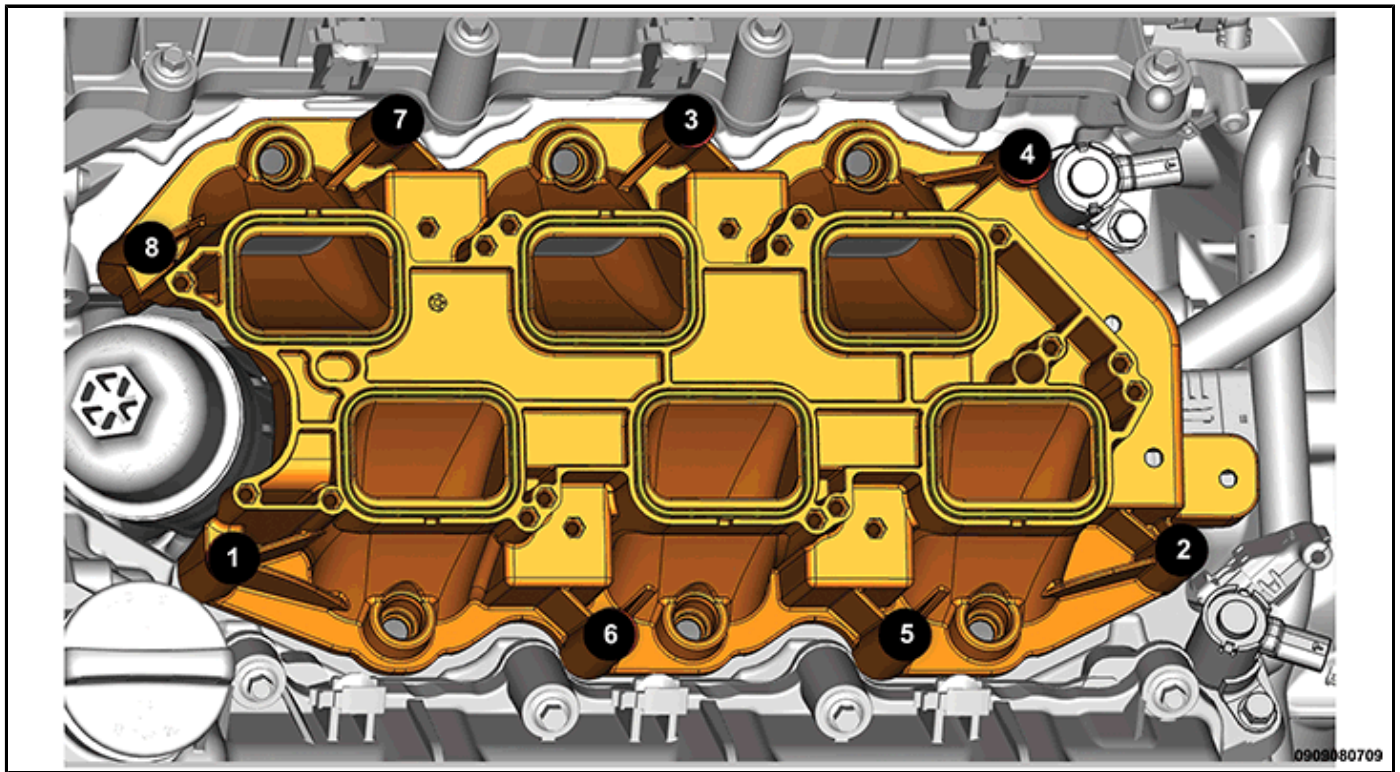
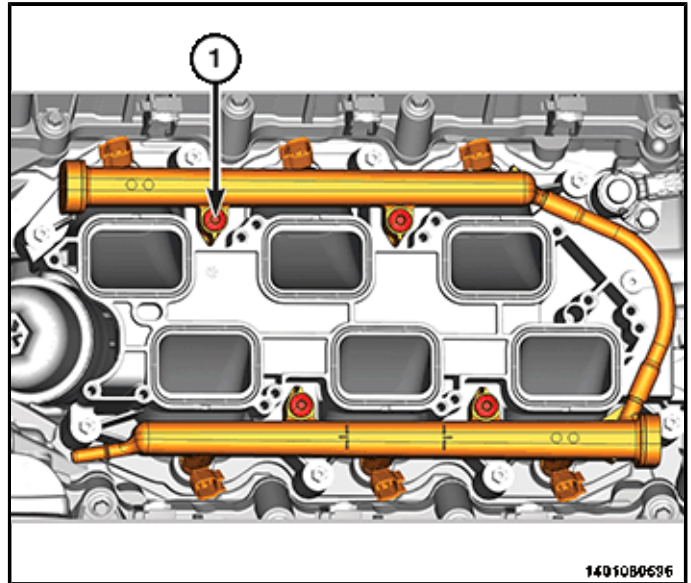
1. Release the fuel system pressure (Refer to 14 - Fuel System/Fuel Delivery - Standard Procedure).
2. Remove the upper intake manifold (Refer to 09 - Engine/Manifolds/MANIFOLD, Intake/Removal and Installation).
3. Remove the insulator (1) from the top of the left cylinder head cover.



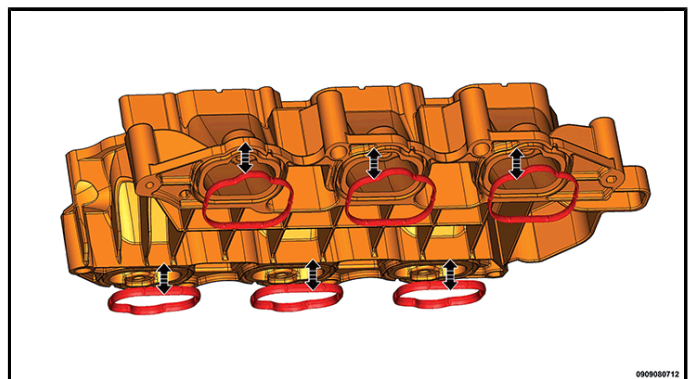
4. Disconnect the fuel supply hose from the fuel rail inlet (Refer to 14 - Fuel System/Fuel Delivery/FITTING, Quick Connect - Standard Procedure).
5. Disconnect the fuel injector wire harness connectors (1) and remove the wire harness assembly from the cylinder head covers on each side of the engine, then position the wire harness aside.



6. Remove the bolts (1) then lift the fuel rail and fuel injectors from the lower intake manifold.



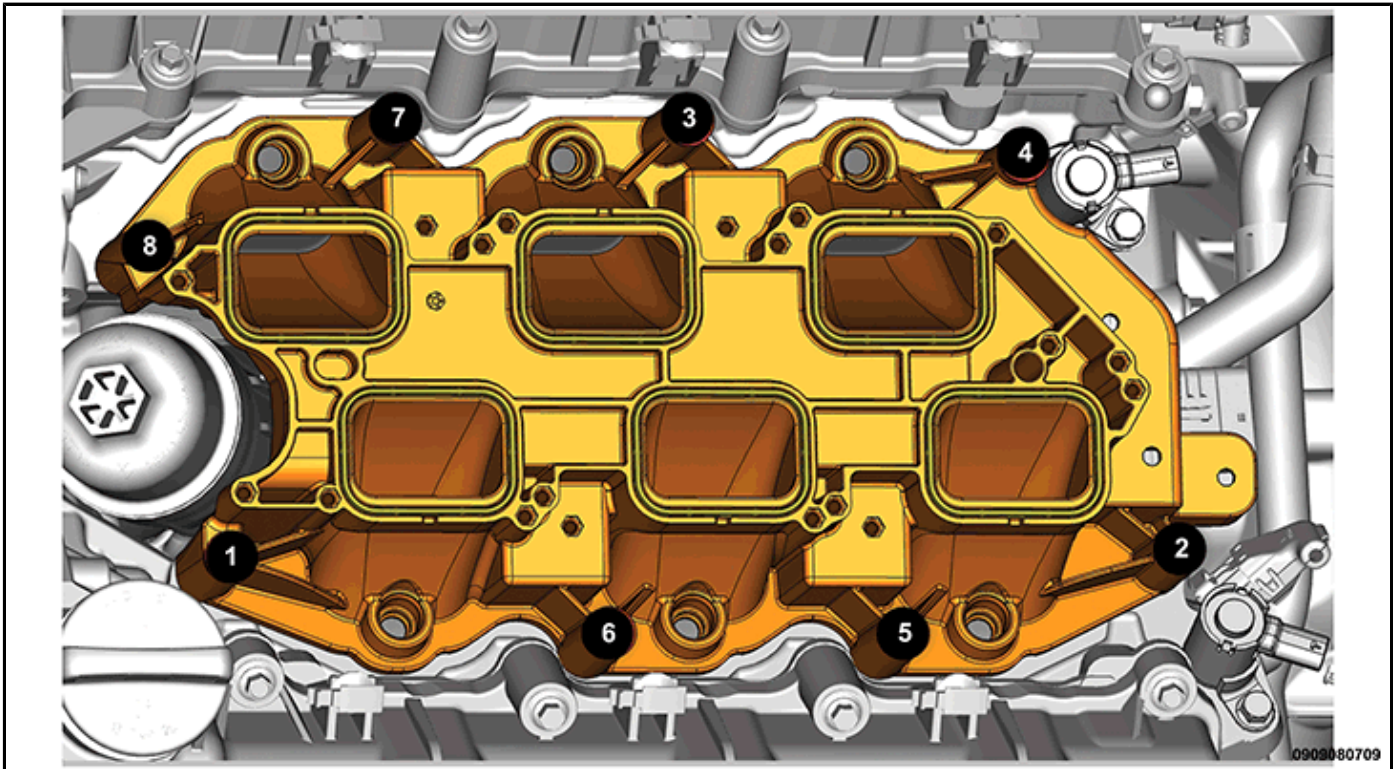
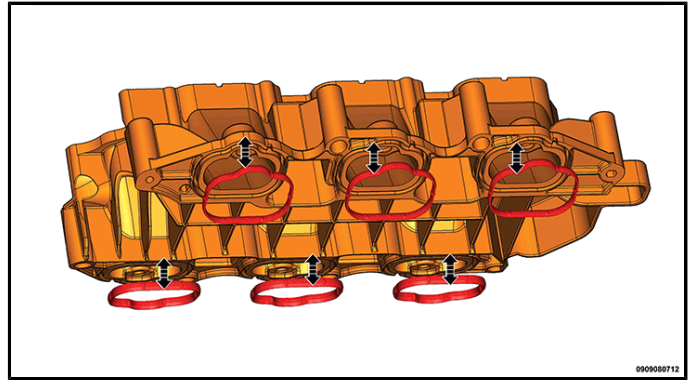
7. Using the sequence shown, remove the bolts and lower intake manifold.
8. Inspect the six lower intake manifold to cylinder head gaskets, and replace only if necessary.



# INSTALLATION

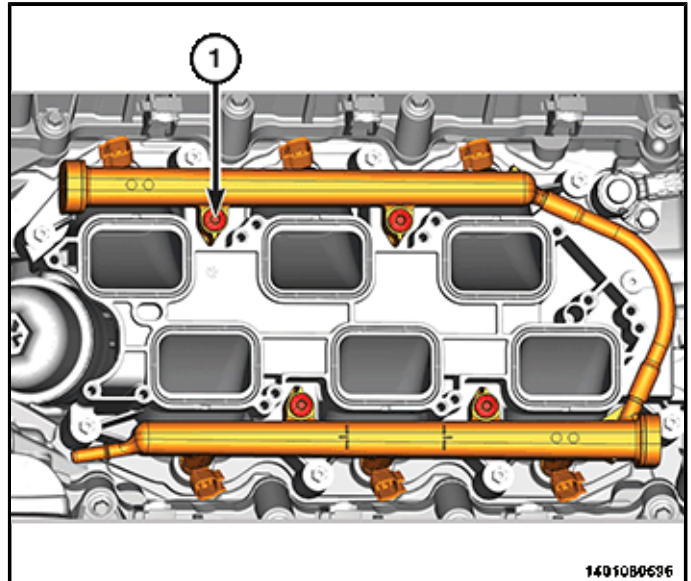
1. Clean and inspect the sealing surfaces, the gaskets may be reused if no issues are found. Install the lower intake manifold to cylinder head gaskets.

**NOTE:** FKM gaskets should not be cleaned with acetone, ketone (like MEK), organic acids ( formic acid/acetic acid), toluene and benzene.

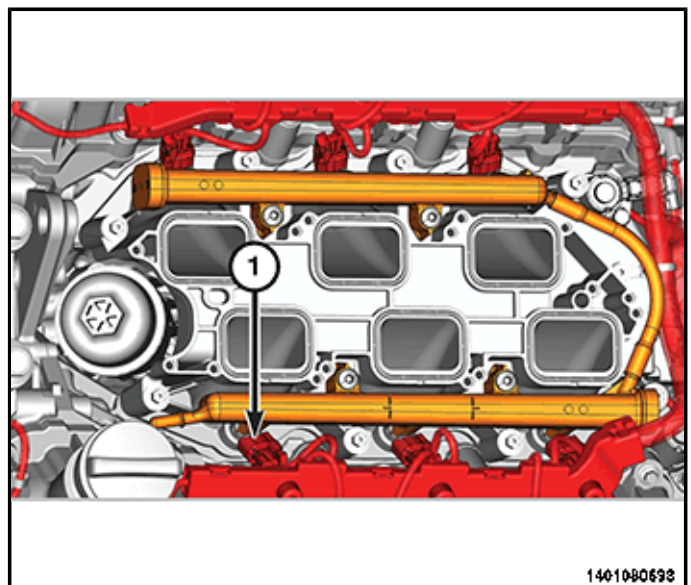


2. Position the lower intake manifold on the cylinder head surfaces.
3. Tighten the bolts to the proper (Torque Specifications) in the sequence shown.

4. Install the fuel injectors and the fuel rail to the lower intake manifold. Tighten the bolts (1) to the proper (Torque Specifications).

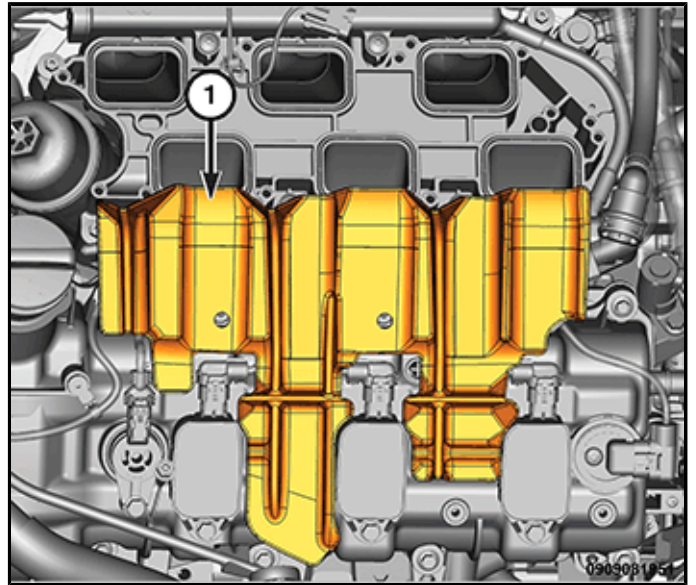


5. Position the wire harness and attach the wire harness assembly onto the cylinder head covers on each side of the engine. Connect the fuel injector wire harness connectors (1).



6. Connect the fuel supply hose to the fuel rail (Refer to 14 - Fuel System/Fuel Delivery/FITTING, Quick Connect - Standard Procedure).

7. Install the insulator (1) to the top of the left cylinder head cover.



8. Install the upper intake manifold, support brackets and resonator (Refer to 09 - Engine/Manifolds/MANIFOLD, Intake/Removal and Installation).
9. Start the engine and check for leaks.