

FUEL INJECTOR INSTALLATION

- 1 If you have not already done so, de-pressurize the fuel system.
- 2 Using a 10mm socket, remove the (4) nuts securing the plastic fuel rail insulation bracket. Remove the bracket along with the foam insulators wrapped over the fuel rails. Pull the insulators up and out of the vehicle for removal.



Remove Fuel Rail Insulation Nuts (4x)

- 3 Move the coolant lines that run over the top of the fuel rails out of the way.
- 4 Place a shop towel underneath the fitting on the driver's side fuel rail where the stainless steel fuel supply line and fuel rail join. Push the two tabs on the fitting together and pull the supply line from the fuel rail, being careful to minimize fuel leakage.



Adjust Coolant Lines For Fuel Rail Removal

! **CAUTION:** The fuel system should be de-pressurized, but some fuel may leak out when the lines are disconnected. Take the necessary precautions to avoid injury or fire.

- 5 Disconnect the fuel injector electrical connectors one at a time, labeling them by their corresponding injector location, to ensure proper sequential injector firing order after re-assembly.



Disconnect Fuel Supply Line

Fuel Injector Installation

- 6 Remove the fuel rail attaching bolts with a 10mm socket (4X).
- 7 Remove the fuel rail assembly as one piece with the injectors still attached and place on a clean work surface, making sure to support the assembly to avoid damaging any of the components.
- 8 Spread the injector retainer clips to release each injector from the fuel rail. Remove the old injectors and set aside. Lubricate each new injector o-ring seal with several drops of clean engine oil.

! **CAUTION:** Never re-use fuel injector o-ring seals, as they lose elasticity over time and could cause a fuel leak and/or potential fire.

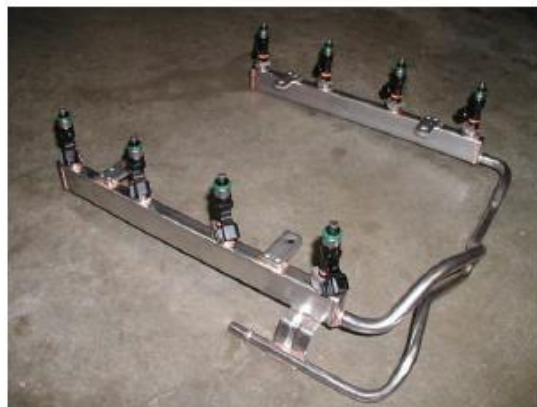
- 9 Install the retainer clips onto the new injectors. Push each injector into the fuel rail injector socket with the electrical connector facing outward. The retainer clip should lock onto a flange on the fuel rail.
- 10 Remove the factory fuel rail spacers (4x) using a pair of pliers, by pulling straight up while applying moderate force.
- 11 Insert the supplied fuel rail spacers. Properly align and install the fuel rail assembly back into the vehicle. Secure the assembly using the (4x) supplied M8-1.5 x 80mm bolts and washers.
- 12 Reclip the electrical connectors to each fuel injector. Plug the supply line back into the rail. Re-install the fuel rail insulation and plastic brackets at this time..



Remove Fuel Rail Mounting Bolts (4x)



Fuel Rail Spacer Removal (4X)



New Fuel Injectors Installed
Onto Fuel Rail Assembly