

INSTALLATION INSTRUCTIONS

Thank you for purchasing genuine Design Engineering, Inc. products. Be sure to always wear the proper safety equipment when installing any DEI product. Design Engineering Inc. WILL NOT BE HELD LIABLE FOR IMPROPER INSTALLATION OR USE OF THIS PRODUCT. Please follow all instructions provided. If you are unsure of any installation procedure, please contact a certified technician.

DESCRIPTION: 10378 - Jeep Fuel Rail & Injector Heat Shield Kit

KIT CONTENTS:

One - Intake manifold shield
Twelve - Fuel injector O-rings
Six - Fuel injector covers
One - Fuel rail cover
Installation instructions

TOOLS NEEDED:

10mm socket w/ ratchet & extension, flathead screwdriver, fuel rail disconnect tool, pick (for removing O-rings)

SAFETY:

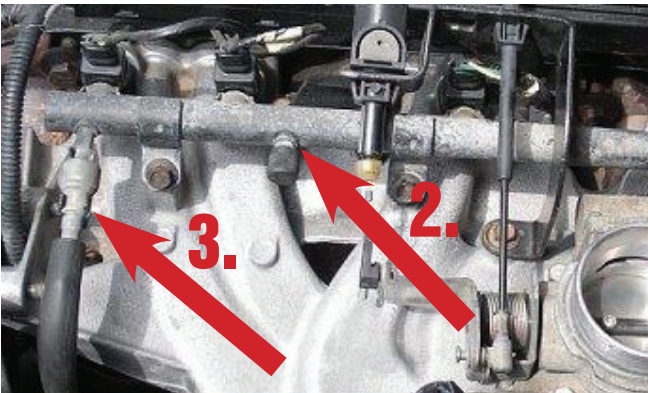
Make sure battery is disconnected & engine is cool. After installation check for fuel leaks. Refer to service manual for exact fuel injector & fuel supply line removal.

NOTE OF CAUTION: Fuel and vapors are flammable. DO NOT have any open flame near vehicle during installation

OVERVIEW: Jeep Fuel Rail & Injector Heat Shield Kit reduces radiant heat on the fuel system and reduces the chance of vapor lock.

NOTE: Some later model fuel rails may have an extra port on them in which you may need to slit the fuel rail cover to fit over it.

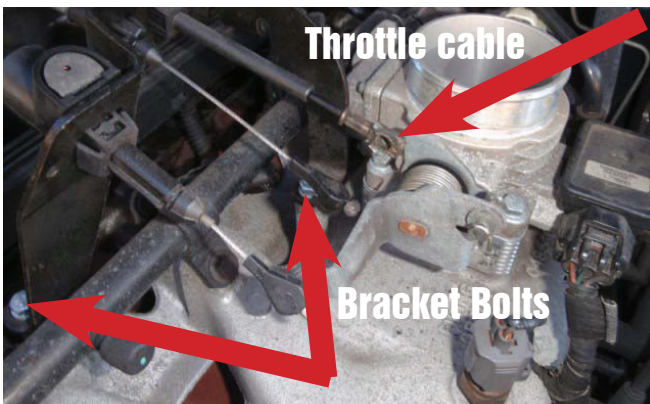
Image A



INSTRUCTIONS:

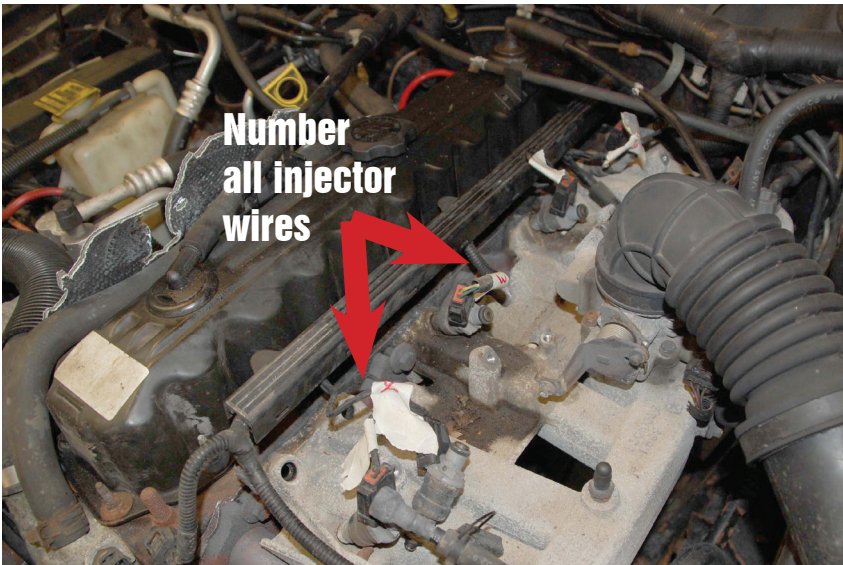
1. Open Hood and disconnect the battery.
2. (Image A) Remove the cap from the service port on the fuel rail. Place a rag over the port and bleed off any fuel pressure. Dispose of the rag properly.
3. Using a quick disconnect tool to release the fuel line at the front of the fuel rail.

Image B



4. Remove the six clips attaching the fuel rail to the injectors.
5. (Image B) Remove the throttle cable bracket & cables.

Image C



6. (Image C) Remove the remaining bolts holding the fuel rail to the intake manifold.

7. (Image C) Mark each injector wire 1-6 to make sure you replace them in the same position.

8. Remove the plastic wire harness channel

9. Gently rock the fuel rail and pull it away from the injectors. Some injectors may stay in the manifold.

Image D



10. (Image D) Install the supplied hard reflective shield over the center head bolt studs. Depending on the year of your engine you may have to enlarge the hole in the shield where the throttle bracket bolt goes through.

11. Reinstall the plastic wire harness channel over the head bolt studs, this will hold down the new shield.

Image E



12. (Image E) Remove the 12 fuel injector O-rings being careful not to scratch or damage the injectors.

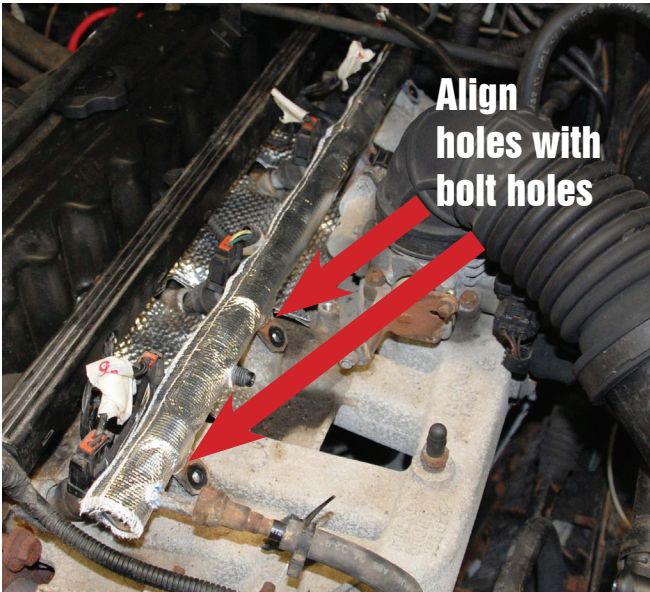
Image F



13. Clean the injectors where the new O-rings will be installed and clean the fuel rail and manifold where the O-rings are seated.

14. (Image F) Install the new O-rings provided on each injector; use a light coating of Vasoline or Dielectric grease to lube the O-rings. This will help seat them in the manifold and rail.

Image G



15. (Image G) Install the new Fuel rail reflective cover aligning the cut outs and wrapping around the rail.

16. (Image G) Install the fuel rail and fuel line bolting the rail in place.

Image H



17. (Image H) Wrap each injector with the new fuel Injector covers.

18. Install the other parts in reverse order.

19. Test run the engine and look for any fuel leaks. Correct any leaks before driving.

Image I

