
Part # 800-002: 2007-08 Honda Fit M/T & A/T Base Injector Upgrade Kit

- NOT CARB Approved-
-Never to be used on Pollution Controlled Vehicles or Public Highways-

The KraftWerks Honda Fit Injector Upgrade kit is designed to be used in conjunction with the KraftWerks Fit Base Supercharger Systems. If you are a competent mechanic with a good set of tools, the installation will be relatively simple. This is a general installation guide for the KraftWerks Fit Injector Upgrade kit; however each installation may vary slightly. Please keep these key factors in mind before installing:

- Please review the entire installation guide before attempting install. If you have any questions about your ability to perform this installation, we recommend you take your vehicle to a performance shop for installation.
- For tools you will need:
 - A full set of metric wrenches from 8mm to 19mm
 - A full set of metric sockets from 8mm to 19mm
 - A screwdriver set
 - Tin Snips
- All of the tools required for this installation can be purchased at a local hardware or auto parts store.
- Make sure that your vehicle has premium gasoline in the tank (91 Octane or more). Run several tanks of Premium fuel through your car prior to installing the supercharger to ensure that there is good Premium grade fuel throughout the system. If you are using a discount brand of fuel, we suggest you switch to a “top tier” gasoline. It is a good practice to get into.
- Always wear safety glasses when working on your vehicle.
- Do not smoke during this entire installation.
- Work in a well-ventilated area. You will be working around gasoline and gasoline fumes.
- Part numbers for individual parts are shown in parentheses. Part numbers start as “016”-000. Example: (016-456)

NOTE: BE VERY CAREFUL TO KEEP THE SUPERCHARGER PIPES AND HOSES CLEAN DURING THE INSTALLATION. THE ROTREX SUPERCHARGER RUNS AT SPEEDS AS HIGH AS 200,000 RPM ON THE HONDA FIT. ANY DEBRIS THAT INADVERTENTLY GETS INTO THE INLET PIPES OR STUCK TO THE SILICONE HOSES WILL GET SUCKED INTO THE ROTREX SUPERCHARGER AND/OR ENGINE. THIS WILL DAMAGE THE COMPRESSOR BLADES AND/OR ENGINE. COMPRESSOR BLADE DAMAGE IS NOT COVERED BY THE ROTREX 2 YEAR WARRANTY.

SECTION 1: PRE-INSTALLATION PRECAUTIONS:

Step 1: Remove the negative battery cable. Before removing the battery cable, verify that you have the “anti theft” radio code. It is usually located in your owner’s manual or on the side of the glove compartment. If you cannot find the radio code, take your car to your local Honda dealer so that they can retrieve the code through the Honda computer network.

SECTION 2: INJECTOR INSTALLATION

Step 2: Remove the plastic cosmetic cover from the intake manifold.

Step 3: Remove the five 12mm headed bolts/nuts that hold the plastic upper intake manifold to the aluminum lower manifold. Be careful when these two manifolds are not bolted together. Errant bolts/nuts or debris could fall into the intake manifold and cause severe engine damage. It is recommended that you cover the lower intake runners with protective tape or a shop towel.

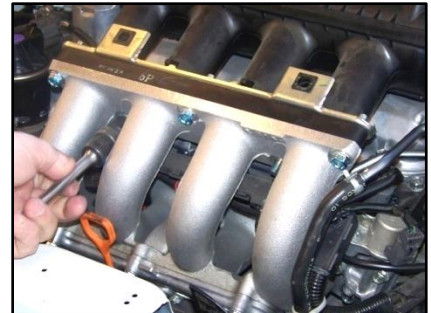


Figure 1: Remove Plastic Intake Manifold

Step 4: Remove the gas cap and remove any residual pressure from the fuel tank. Always use safety glasses while performing this operation.

Step 5: Remove the plastic safety cover from the fuel line/fuel rail connector. Push the safety clips from each side of the fuel line and gently remove the fuel line from the fuel rail. Have a shop towel ready for any high pressure residual fuel that might spray from the fuel rail.



Figure 2: Fuel Line Safety Cover

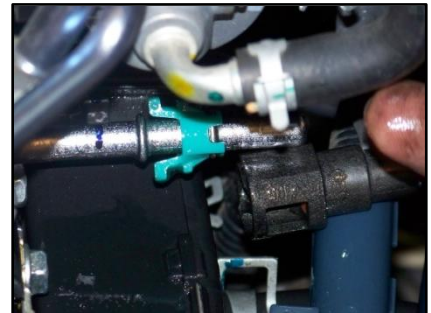


Figure 3: Fuel Line Removed From Rail

Step 6: Unbolt the 10mm headed bolt that holds the fuel rail security tab to the cylinder head. It is located under the throttle body.



Figure 4: Unbolt Fuel Rail Bolt under Throttle Body

Step 7: Remove the fuel injector wiring harness plastic cover from the metal tabs on the fuel rail. Remove the fuel injector wiring clips from the injectors.



Figure 6: Remove Fuel Rail Mounting Nuts

Step 8: Remove the two 10mm flanged nuts from the top of the fuel rail mounting studs.

Step 9: Lift the fuel rail from the engine compartment.

Step 10: Remove the injector retaining clips from the injector and the fuel rail one clip at a time. Remove and reinstall one injector at a time so that you don't forget how they are installed.

Step 11: There are metal tabs on the fuel rail that the plastic housing was clipped into. These metal tabs will make reinstalling the fuel rail with the taller RC injectors difficult. If you prefer, you can cut the tabs off the rail with a pair of "tin snips." If you want to leave the metal tabs in place, it will require you to insert the injectors into the cylinder head first before installing the fuel rail onto the injectors, and it will be more difficult. Listed below is a general guideline to fuel injector installation with the tabs removed.



Figure 5: Remove Wiring Harness from Fuel Rail



Figure 7: Removing Metal Tabs from Fuel Rail

Step 12: Grease the O rings on the inlet side of the new fuel injectors and install them into the fuel rail. Reinstall the retaining clips onto the fuel injectors. If you plan on using the fuel rail without removing the tab retainers, install the fuel injectors into the cylinder head instead of the fuel rail as noted above.

Step 13: Remove the fuel injector mounting studs at the intake manifold.



Figure 8: Remove Intake Manifold Studs

Step 14: Carefully grease the O ring on the bottom of the injectors. Install the injector conversion clips onto the RC injectors in the fuel rail. Your fuel rail and injectors are ready to be re-installed.



Figure 9: Properly Greased Injector

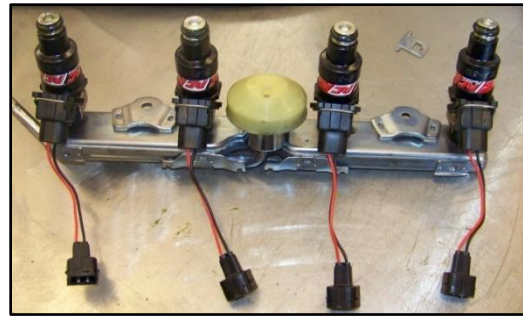


Figure 10: Fuel Rail Ready for Installation

Step 15: Install the fuel rail assembly with the newly greased injectors into the injector holes. Finalize the injector installation by installing two new 6 x 1.0 x 35mm flanged bolts through the fuel rail, then through the rail spacers provided in the injector box, and then thread the bolts into the intake manifold. Torque these bolts to 7 ft lbs.

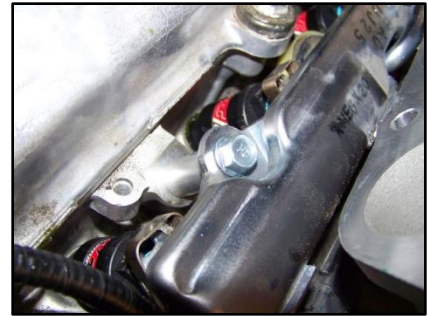


Figure 11: Fuel Rail Installed

Step 17: Install the injector conversion clips (016-078) from each new injector to the stock injector lead.

Step 18: Re-install the five 12mm headed bolts/nuts that hold the plastic upper intake manifold to the aluminum lower manifold. Remember to remove the tape/shop towels! Re-install the cosmetic cover.

Step 19: Re-install the bolt for the fuel rail security tab and torque to 7 ft lbs.



Figure 12: Injector Clips to Injector Leads

Step 20: Re-install the fuel line on the fuel rail and reinstall the plastic safety cover on the fuel line/fuel rail junction. Be sure the fuel line clip engages completely.

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