



INSTALLATION INSTRUCTIONS


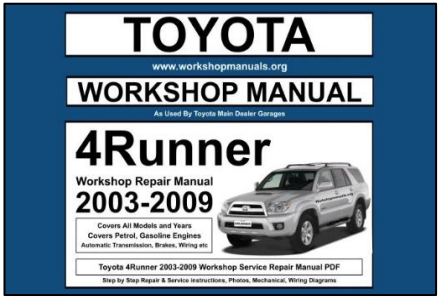


TOYOTA 2UZ-FE FUEL RAILS







P/Ns: 20-0962



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Support: info@radiumauto.com

CAUTION	
<p>Only a qualified technician following applicable safety procedures should perform the installation of this product. One must have knowledge in repair and modification of fuel systems and general vehicle modifications to install this product. Gasoline and other fuels are flammable and can be explosive. Only install in a well-ventilated location to minimize buildup of fuel vapors. No sparks, open flames, smoking or other ignition sources are to be present. Draining and removal of all fuel from the fuel system is recommended. Proper eye and personal protection is required at all times during installation.</p>	
WARNING	
<p>The fuel system is under pressure! Do not loosen any connections until relieving the fuel system pressure. Consult a service manual for instructions on relieving fuel pressure safely. This product is designed for off-highway and racing use only. Fuel system components may not be legal for sale or use on emissions controlled motor vehicles. Consult local, state, and federal laws.</p>	

STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	10mm Socket Wrench	First, turn OFF the ignition and disconnect the battery. CAUTION: Disconnecting the battery may cancel the fault memories of some control units.	
2		Because of the various compatible vehicles, removal of the fuel lines, fuel rails, and fuel injectors will not be covered. It is recommended to have a factory Workshop Service Manual. NOTES: 1. The OEM M8x1.25mm flanged nuts will be reused. 2. For aluminum 2UZ-FE (Non VVT-i) intake manifolds, leave the 4 factory thermal insulating spacers on the M8x1.25mm studs. 3. For plastic 2UZ-FE (VVT-i) intake manifolds, there are no OEM thermal insulating spacers and they are NOT required.	
3	Rag	When removing the injectors from the fuel rails, have a rag handy.	
4	4mm Allen Wrench	In the next step, the included mounting feet will be installed to the fuel rails. However, they must be positioned so the machined internal "step" is visible from underneath, as shown. This is necessary for proper mating with the OEM thermal insulating spacers, if used.	

5	4mm Allen Wrench	ALUMINUM 2UZ-FE (NON VVT-I) INTAKE MANIFOLD ONLY	
		As depicted, be sure not to mistakenly use the extra outer mounting location shown.	
6	4mm Allen Wrench	PLASTIC 2UZ-FE (VVT-I) INTAKE MANIFOLD ONLY	
		As depicted, be sure one (RH) fuel rail uses the inner mounting location and the other (LH) fuel rail uses the outer mounting location.	
7	Oil	ALUMINUM 2UZ-FE (NON VVT-I) INTAKE MANIFOLD ONLY	
		Because this will be a custom fuel rail installation, adapter fittings are NOT included. Each fuel rail has three 8AN ORB (3/4"-16) ports. Go to www.radiumauto.com to find an array of compatible adapter fittings, fuel pressure regulators, pulse dampers, etc. that can be used.	
		NOTE: Lubricate the O-rings prior to installation.	
8	Oil	ALUMINUM 2UZ-FE (NON VVT-I) INTAKE MANIFOLD ONLY	
		For ease of installation, lubricate the injector O-rings, intake manifold injector seats, and fuel rail injector bores.	
		Fully insert the injectors into the fuel rail bores, as shown.	
9		ALUMINUM 2UZ-FE (NON VVT-I) INTAKE MANIFOLD ONLY	
		Confirm all 4 OEM thermal insulating spacers are installed to the intake manifold studs, as shown.	
		NOTE: The plastic 2UZ-FE (VVT-i) intake manifolds do not have OEM thermal insulating spacers and they are NOT required for installation.	
10	12mm Socket	ALUMINUM 2UZ-FE (NON VVT-I) INTAKE MANIFOLD ONLY	
		Line-up and place the fuel rail assemblies onto the intake manifold. Once everything is positioned correctly, push the fuel rails downward to fully seat the injectors.	
		Secure the fuel rail using the OEM M8x1.25mm hex flanged nuts. NOTE: The 2UZ-FE (VVT-i) intake manifold is shown.	
		Orient the fuel injectors so the connectors can be plugged in.	

11		The aluminum 2UZ-FE (NON VVT-I) intake manifold is shown. Notice the front RH fuel rail mounting foot location.	
12		The plastic 2UZ-FE (VVT-I) intake manifold is shown. Notice the front RH fuel rail mounting foot location.	
13	10mm Wrench	<p>After all the necessary fuel rail plumbing is installed, reconnect the battery. Cycle the keyed ignition switch ON/OFF a few times (without starting the engine). This allows the fuel pump to prime the system. Check for leaks.</p> <p>Start the engine and confirm again while the engine is running.</p> <p>INSTALLATION COMPLETE</p>	