

INSTALLATION INSTRUCTIONS

YAMAHA YXZ1000R FUEL RAIL

P/N: 20-1139

Document: 19-0439

Support: info@radiumauto.com

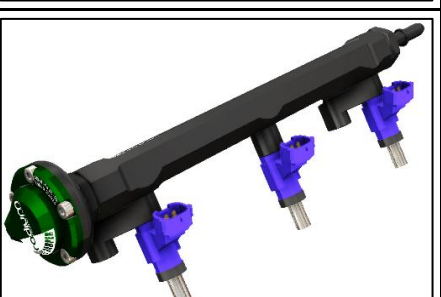
CAUTION

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.

WARNING

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.

STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1		Remove the panel directly under the center console. Find the fuel pump fuse. Disconnect the fuel pump fuse and turn the vehicle ON. Allow the engine to stall. Turn OFF the ignition.	
2	Wrench	Removal of the fuel lines, fuel rail, and fuel injectors will not be covered specifically. It is recommended to have a factory service manual. The battery is also located under the center console. Disconnect the negative battery terminal.	
3		UTVs will typically have dirt and mud everywhere. Prior to opening the fuel system, it is recommended to clean the surrounding area with compressed air.	
4	Pick Rag	To unplug the 3 fuel injector connectors, depress the locking thumb tabs and pull to release. To remove the SAE quick connect fuel line, first pry up on the red plastic lock (it does not need to be removed). Now pull the SAE quick connector away to release from the fuel rail. Be ready as fuel will leak from this connection.	

5	Screwdriver	Remove the 2 OEM mounting screws and corresponding spacers. These will NOT be reused. Carefully pull the fuel rail and injectors from the throttle body. Bring the assembly to a clean work bench. Carefully pull each injector from the fuel rail. Have a rag handy.	
	Rag		
6	Threadlocker	Adapter fittings are NOT included with the fuel rail. As shown, the optional 20-1139-PK FUEL RAIL PLUMBING KIT includes all the necessary adapter fittings to reuse the OEM fuel line. For custom plumbing installations, the fuel rail has two 3/4"-16 (8AN ORB) end ports. Go to www.radiumauto.com to find an array of compatible adapter fittings, regulators, pulse dampers, etc.	
	3mm Allen Wrench		
7	Threadlocker	20-1139-PK FUEL RAIL PLUMBING KIT The fuel pulse damper (FPD) vacuum port is #10-32 thread tapped. For these Yamaha engines, fuel pressure operates within the specified FPD range so a vacuum reference is not required. If pressure falls out of this range, a vacuum reference will be required. Using a wicking thread locker, such as Loc-Tite 290, install one of the provided fittings to the port. The plug is shown.	
	1/8" Allen Wrench		
8	Oil Lubrication	20-1139-PK FUEL RAIL PLUMBING KIT Lubricate the O-rings and install the provided adapters in the exact end ports shown.	
	7/8" Wrench Wrench		
9		This fuel rail is compatible with factory (or equivalent) fuel injectors. If installing Injector Dynamics XXXX.27.02.34.11.3 (shown), the OEM lower cushion replaces the lower O-ring and O-ring retainer from the Bosch EV14 injectors.	
10	Oil Lubrication	Lubricate the 3 fuel rail injector bores and the upper injector O-rings and carefully push them together.	

11	4mm Allen Wrench	Lubricate the lower injector cushions and the corresponding lower throttle body seats.	
		Lineup the fuel rail assembly to the throttle body housing and press downward to fully seat. Properly orient the connectors. Secure the fuel rail using the provided screws, as shown.	
		Plug in the fuel injector connectors until they click in place.	
12		20-1139-PK FUEL RAIL PLUMBING KIT	
		Inspect the condition of the OEM fuel line connector. Clean any debris and replace any parts that may be permanently damaged.	
		Push the OEM fuel line onto the fuel rail inlet port. Push the lock down until it clicks in place. Gently give the line a tug to confirm the connection has been made.	
13	10mm Wrench	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.	
		Start the engine and confirm again while the engine is running.	
		INSTALLATION COMPLETE	