

INSTALLATION INSTRUCTIONS

KAWASAKI TERYX H2 FUEL RAIL

P/N: 20-1136

Document: 19-0436

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.

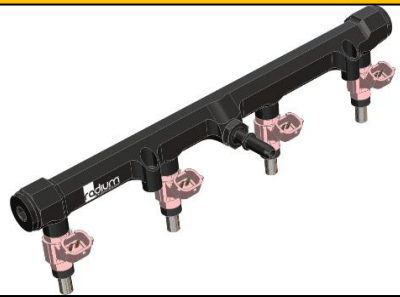
Only install in a well-ventilated location to minimize buildup of fuel vapors.

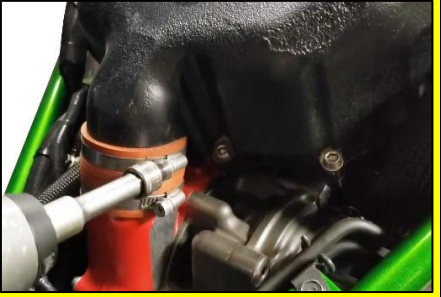
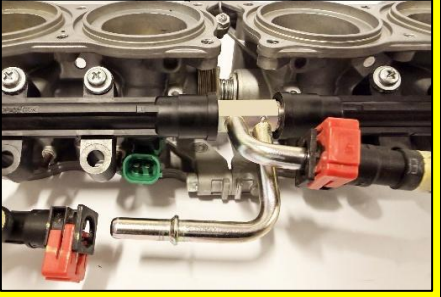
No sparks, open flames, smoking or other ignition sources are to be present. Draining and removal of all fuel from the fuel system is recommended. Proper eye and personal protection is required at all times during installation.

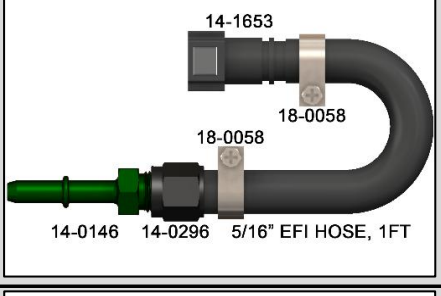
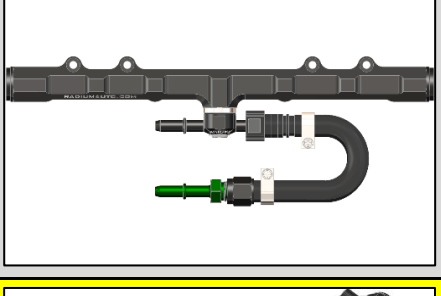
WARNING

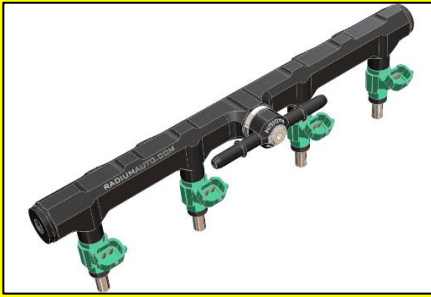
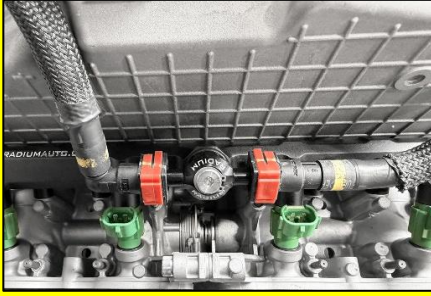
The fuel system is under pressure! Do not loosen any connections until relieving the fuel system pressure. Consult a service manual for instructions on relieving fuel pressure safely. This product is designed for off-highway and racing use only. Fuel system components may not be legal for sale or use on emissions controlled motor vehicles. Consult local, state, and federal laws.

STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1		For 20-1136 PRIMARY FUEL RAIL instructions, follow Steps x-x.	
		For 20-1140 SECONDARY FUEL RAIL instructions, follow Steps x-x.	
		Unplug the fuel pump connector under the seat. NOTE: These H2 fuel rail instructions are not specific to either the Kawasaki Ninja (motorcycle) or the Teryx (UTV).	
2	10mm Socket Wrench	Removal of the fuel system will not be covered specifically. It is recommended to have a factory workshop service manual. Disconnect the negative battery terminal under the seat.	
3	Pick	20-1140 FUEL RAIL, KAWASAKI H2 SECONDARY	
	Rag	Clean the surrounding area with compressed air.	
	8mm Socket Wrench	Depress the locking thumb tabs (shown yellow) and pull to release the injector connectors. Pry up on the (red) plastic SAE quick connect lock (it does not need to be removed). Now pull the connector away to release from the fuel rail. To take off the fuel rail, unscrew the 4 OEM mounting bolts (shown blue).	
4	Rag	20-1140 FUEL RAIL, KAWASAKI H2 SECONDARY	
		The 4 OEM secondary fuel rail mounting screws will NOT be reused.	
		Bring the assembly to a clean work bench. Carefully pull each injector from the fuel rail. Have a rag handy.	

5		<u>20-1140-PK FUEL RAIL PLUMBING KIT, KAWASAKI H2 SECONDARY</u>	
		Adapter fittings are NOT included with the fuel rail. As shown, the optional 20-1140-PK FUEL RAIL PLUMBING KIT, KAWASAKI H2 SECONDARY includes all the necessary adapter fittings to reuse the OEM fuel line.	
		For custom plumbing installations, the fuel rail has three 3/4"-16 (8AN ORB) ports. Go to www.radiumauto.com to find an array of compatible adapter fittings, regulators, pulse dampers, etc.	
6	Oil Lubrication	<u>20-1140-PK FUEL RAIL PLUMBING KIT, KAWASAKI H2 SECONDARY</u>	
	7/8" Wrench	Lubricate all O-rings and install the provided fittings in the exact fuel rail ports shown.	
	5/16" Allen Wrench		
7	Oil Lubrication	<u>20-1140 FUEL RAIL, KAWASAKI H2 SECONDARY</u>	
	7/8" Wrench	If by chance there are erratic fuel pressure spikes, it is recommended to use a fuel pulse damper. This can be installed into either one of the end ports in conjunction with the 20-1140-PK fuel rail plumbing kit, as shown. (1x) 20-0776 FPD-R, 8AN ORB	
8		<u>20-1140 FUEL RAIL, KAWASAKI H2 SECONDARY</u>	
		The fuel rail is machined to accept 11mm upper injector O-rings. It is compatible with factory (or equivalent) fuel injectors.	
9	Oil Lubrication	<u>20-1140 FUEL RAIL, KAWASAKI H2 SECONDARY</u>	
		Lubricate the 4 fuel rail injector bores and the upper injector O-rings and push them together.	
10	4mm Allen Wrench	<u>20-1140 FUEL RAIL, KAWASAKI H2 SECONDARY</u>	
		Lubricate the lower injector O-rings and the corresponding plenum seats. Lineup the fuel rail assembly to the plenum and press downward to fully seat. Properly orient the connectors, as shown. Secure the rail using the provided screws.	

11		<u>20-1140-PK FUEL RAIL PLUMBING KIT, KAWASAKI H2 SECONDARY</u> Plug in the fuel injector connectors until they click in place.	
12	10mm Wrench	<u>20-1140 FUEL RAIL, KAWASAKI H2 SECONDARY</u> After all the necessary fuel rail plumbing is installed, reconnect the battery. Cycle the 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	
13	8mm Socket Wrench	<u>20-1136 FUEL RAIL, KAWASAKI H2 PRIMARY</u> To remove the intake manifold plenum, loosen the clamp (shown) that secures the coupler. Now remove all 15 of the perimeter plenum cover screws.	
	5mm Allen Wrench		
14	4mm Allen Wrench	<u>20-1136 FUEL RAIL, KAWASAKI H2 PRIMARY</u> After the plenum cover is OFF, remove the 4 internal velocity stacks.	
15	4mm Allen Wrench	<u>20-1136 FUEL RAIL, KAWASAKI H2 PRIMARY</u> Separate the lower plenum (shown) from the throttle bodies.	
16	Pick	<u>20-1136 FUEL RAIL, KAWASAKI H2 PRIMARY</u> To unplug the 4 primary fuel injector connectors, depress the locking thumb tabs and pull to release. Pry up on the red plastic quick connect locks (they do not need to be removed). Now pull both connectors away to release from the fuel rail.	
	Rag		

17	Screwdriver	<u>20-1136-PK FUEL RAIL, KAWASAKI H2 PRIMARY</u>	
	Rag	To remove the primary fuel rail, unscrew the 4 OEM mounting bolts. These will NOT be reused.	
18		<u>20-1136-PK FUEL RAIL PLUMBING KIT, KAWASAKI H2 PRIMARY</u>	
		Fittings are NOT included with the fuel rail. As shown, the optional 20-1136-PK FUEL RAIL PLUMBING KIT, includes adapter fittings to reuse the OEM fuel line on the Kawasaki H2.	
19	Oil Lubrication	<u>20-1136-PK FUEL RAIL PLUMBING KIT, KAWASAKI H2 PRIMARY</u>	
	4mm Allen Wrench	Lubricate all O-rings and install the provided fittings in the exact fuel rail ports shown.	
	5/16" Allen Wrench		
20		<u>KAWASAKI H2 "HYPER-NAKED" STREET BIKE ONLY</u>	
		The primary fuel rail lines are different. Both OEM fuel lines are on the same side of the engine instead of opposing sides like the hypersport H2 bike and the track-only race H2R bike.	
21	11/16" Wrench	<u>KAWASAKI H2 "HYPER-NAKED" STREET BIKE ONLY</u>	
	Hose Cutter	Install the provided fittings and hose ends as shown. If necessary, cut the hose to length. The hose will need to be bent around, as shown.	
	Screwdriver		
22	Oil Lubrication	<u>20-1136 FUEL RAIL, KAWASAKI H2 PRIMARY</u>	
	7/8" Wrench	If, by chance, there are erratic fuel pressure spikes, it is recommended to use a fuel pulse damper. This can be installed into either one of the end ports in conjunction with the 20-1136-PK fuel rail plumbing kit, as shown.	

23		<u>20-1136 FUEL RAIL, KAWASAKI H2 PRIMARY</u>	
		The fuel rail is machined to accept 11mm upper injector O-rings. It is compatible with factory (or equivalent) fuel injectors.	
24	Oil Lubrication	<u>20-1136 FUEL RAIL, KAWASAKI H2 PRIMARY</u>	
		Lubricate the 4 fuel rail injector bores and the upper injector O-rings and push them together.	
25	4mm Allen Wrench	<u>20-1136 FUEL RAIL, KAWASAKI H2 PRIMARY</u>	
		Lubricate the lower injector O-rings and the corresponding throttle body seats. Lineup the fuel rail assembly to the throttle body and press downward to fully seat. Secure the rail using the provided screws.	
26		<u>20-1136-PK FUEL RAIL PLUMBING KIT, KAWASAKI H2 PRIMARY</u>	
		Plug in the fuel injector connectors until they click in place.	
27	10mm Wrench	<u>20-1136 FUEL RAIL, KAWASAKI H2 PRIMARY</u>	
		After all the necessary fuel rail plumbing is installed, reconnect the battery. Cycle the 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	