

INSTALLATION INSTRUCTIONS TOP FEED FUEL RAIL MKIV Toyota Supra/Aristo (2JZ-GTE)

Document: 19-0103
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.

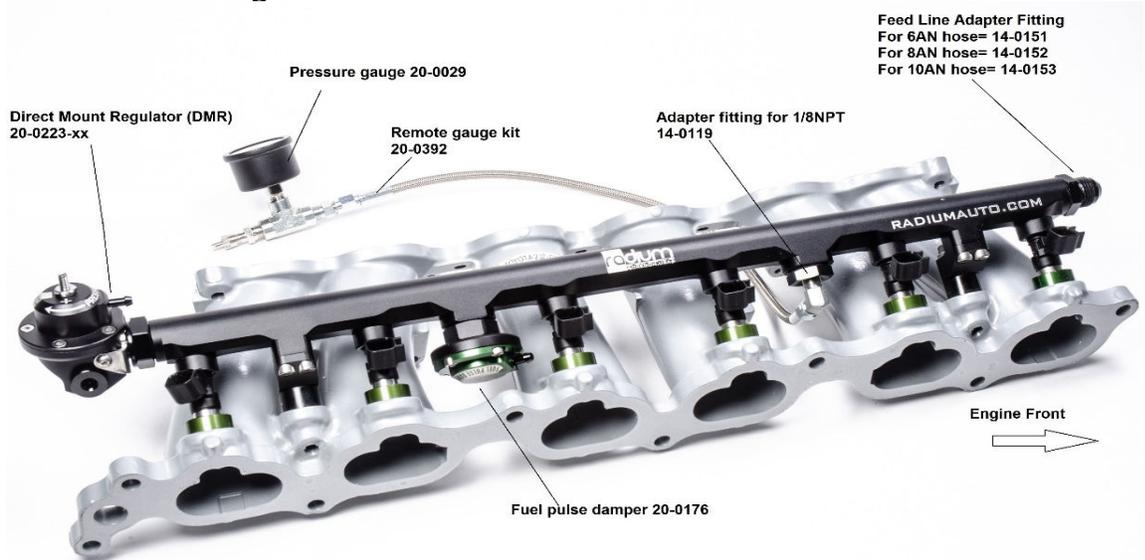
STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	Oil	Completely remove the factory fuel rail and thoroughly clean the injector holes on the intake manifold. RETAIN THE TWO OEM FUEL RAIL PLASTIC MOUNTING SPACERS AND MOUNTING BOLTS! These will be reused. If the spacers are not present, they can be purchased from Toyota using part number 90561-08009.	
		Install the included O-rings on the Radium injector seats and lubricate them.	
2		Install all six injector seats into the holes on the intake manifold. Press firmly until fully seated.	
3		Determine what injector height will be used. The fuel rail kit is compatible with 34 or 48 mm height injectors (approximate measured distance between the O-ring grooves).	
		The fuel injectors must have 14mm upper and lower O-rings.	
4		In some cases, the installer may be trying to use aftermarket fuel injectors that have adapter hats installed on them. These are used to change an injectors installation height, and/or reduce the O-ring size, but do not provide any functional purpose.	
		If proper fitment is not achieved with the caps installed, the caps can be removed from the injectors. In most cases this will result in having a 34mm height injector, which are compatible with the this fuel rail.	

5	4mm Allen Wrench	Once the injector height has been determined, install the corresponding mounting meet on to the fuel rail. Secure with the included M5 screws and some low-strength thread locking compound.	
	Blue Loctite		
6	Oil	Lubricate the fuel injector O-rings with oil and insert them into the fuel rail bores. Test fit the fuel rail using the OEM plastic spacers and make sure the injectors are seating into the green injector seats correctly. Once fitment has been verified, it is now a good time to remove the fuel rail and install any adapters and/or accessories into the fuel rail ports. Refer to the diagrams later in this document for details on fittings and configuration. Once again, check fitment after this process.	
7	12mm Socket	Position the fuel rail assembly into place for final installation. Install the OEM fuel rail mounting bolts and associated plastic spacers. Use a thin-walled 12mm socket to tighten the fuel rail mounting bolts to 15 ft-lb. Due to tight clearance with the fuel rail, the socket may be slightly angled as it engages the hex of the bolt head. Alternatively a 12mm crows foot attachment can be used, or the screws can be swapped to socket head Allen type (not included).	
8		Plug in the injectors and hook up the rest of the corresponding fuel system. Pressurize the fuel system and check for leaks and correct any that may occur. INSTALLATION IS COMPLETE	

Configuration Guide

The configuration shown here is the recommended setup when using the Radium complete fuel delivery system for the MKIV Supra.

The pressure gauge must be remote mounted using kit 20-0392 when using the stock intake manifold.



Additional Notes for Installing a Pressure Gauge

If a remote mounted gauge is not ideal, one can also be installed on the front port where the feed line connects using an in-line adapter.

For 6AN size: 14-0148-06

For 8AN size: 14-0148-08

For 10AN size: 14-0148-10



Alternatively, a pressure gauge can be installed on one of the bottom ports using a combination of NPT fittings as shown.

8AN to NPT Adapter: 14-0119

90deg Male-Female 1/8NPT Elbow: 14-0332 (x2)

