

# INSTALLATION INSTRUCTIONS

## Subaru Top Feed Conversion Fuel Rails

P/Ns: 20-0568-02, 20-0569-02, 20-0579-02, & 20-0763-02

Document: 19-0223

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.**

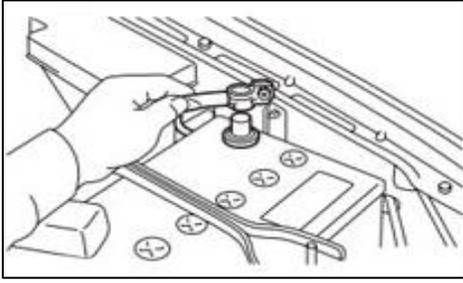
Only install in a well-ventilated location to minimize buildup of fuel vapors.

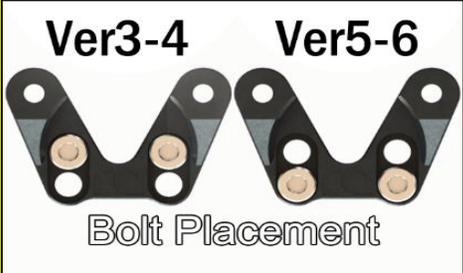
No sparks, open flames, smoking or other ignition sources are to be present. Draining and removal of all fuel from the fuel system is recommended. Proper eye and personal protection is required at all times during installation.

### 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		It is necessary to have access to a Factory Service Manual. Remove fuel pump fuse and start engine. Allow engine to stall to relieve fuel pressure. Remove ignition key and disconnect battery (as shown).	
2		The procedure for removing the OEM fuel rails and associated piping will vary from model to model and will not be covered in this document. Proceed to the next step when the OEM rails and piping are removed.	
3	Non-marring wrenches	Prepare the Radium fuel rails by installing the appropriate fittings or accessories into the ports. This will vary by application. All ports are 8AN ORB. Compatible fittings must have an O-ring installed. Lubricate all o-rings with oil.  If reusing the OEM Subaru (2-bolt flange type) fuel pressure regulator, transfer to the appropriate Radium OEM FPR adapter. Visit radiumauto.com for details. If Radium 20-0478, 20-0578, or 20-0584 Fuel Rail Plumbing kits were purchased, refer to those specific installation instructions.  <b>NOTE: To avoid undue stress, it is highly recommended that fittings are installed and tightened down before the rails are mounted to the engine.</b>	
	Petroleum Oil		
4		These fuel rails are compatible with UNIVERSAL fuel injectors that use 14mm upper and lower O-rings, shown with green circle. "WRX" fitment injectors which have 11mm top o-rings and a 17mm lower "bucket" are NOT compatible.  <b>NOTE: Reference the product page at www.radiumauto.com for more information.</b>	

5		The 20-0568-02, 20-0579-02, and 20-0763-02 fuel rail kits are compatible with "34mm height" fuel injectors only. Example shown at left.	
		The 20-0569-02 fuel rail kit is compatible with "48mm height" fuel injectors only. Example shown at right.	
		NOTE: Reference the product page at <a href="http://www.radiumauto.com">www.radiumauto.com</a> for more information.	
6		<b>P/N: 20-0569-02 ONLY</b>	
		As shown, the provided mounting brackets will need to be installed based on the Subaru application.	
7	6mm Hex Wrench	<b>P/N: 20-0569-02 ONLY</b>	
		Install the fuel rail mounting brackets using the included screws. Subaru Version 3-4 Impreza STi intake manifold shown.	
8	6mm Hex Wrench	<b>P/N: 20-0579-02 ONLY</b>	
		Install the fuel rail mounting brackets using the included screws. Subaru Version 1-2 Impreza WRX intake manifold shown.	
9	4mm Allen Wrench	<b>P/N: 20-0763-02 ONLY</b>	
		Install the mounting feet to the fuel rails using the included socket head screws.	
10	Petroleum Oil	Thoroughly clean the area where the lower OEM side feed injector cushions resided.	
		If not already assembled, install the included O-rings into the injector seat O-ring grooves. Lubricate the O-rings and push or tap to fully seat them into place.	

11	Petroleum Oil	Lubricate all fuel injector O-rings.	
		As shown, push the upper injector O-rings into the fuel rail ports.	
12		<b>P/Ns: 20-0568-02, 20-0569-02, and 20-0579-02 ONLY</b>  Press the black insulating spacers into the fuel rail mounts, then insert the M8x1.25mm bolts. Push an O-ring over each of the bolt threads and fully seat it into the recess area, as shown.	
13	6mm Hex Wrench	Carefully push injectors into the lower seats.	
	5mm Hex Wrench	Secure the fuel rails in place using the supplied M8x1.25 Allen head screws.	
		<b>INSTALLATION COMPLETE</b>	
		<i>NOTE: If installing FUEL RAIL PLUMBING kits (20-0478, 20-0578, or 20-0584), please reference those instructions specifically at <a href="http://radiumauto.com">radiumauto.com</a>.</i>	