

INSTALLATION INSTRUCTIONS

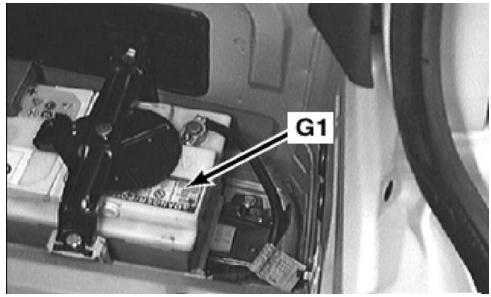
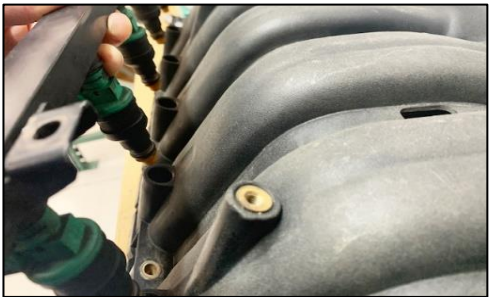
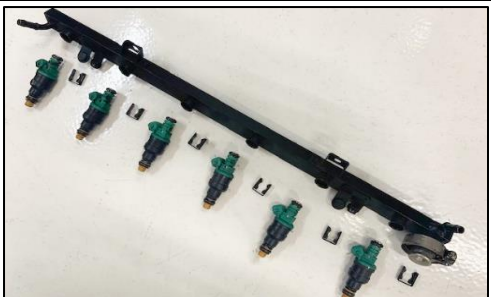

BMW M50 M52 M54 S50 S52 Fuel Rail







P/N: 20-0770




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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.</p> <p>Gasoline and other fuels are flammable and can be explosive.</p> <p>Only install in a well-ventilated location to minimize buildup of fuel vapors.</p> <p>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.</p> <p>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 Wrench	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).	
		CAUTION: Disconnecting the battery (G1) may cancel the fault memories of some control units.	
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		Slide and pull the injector locking clips off the top of the fuel injectors.	
		Gently pull each fuel injector from the OEM fuel rail. Inspect all O-rings and replace if necessary.	
4a	Threadlocker	BMW M50 and S50 (non ITB) Engines Only	
	3mm Allen Wrench	As shown, install the black aluminum mounting brackets to the fuel rail in the inner most position. Apply a medium-strength threadlocker to the threads.	

4b	Threadlocker	BMW M52 and S52 Engines Only As shown, install the black aluminum mounting brackets to the fuel rail in the center most position. Apply a medium-strength threadlocker to the threads.	
	3mm Allen Wrench		
4c	Threadlocker	BMW M52TU and M54 Engines Only As shown, install the stainless steel mounting brackets to the fuel rail. Apply a medium-strength threadlocker to the threads. NOTE: This fuel rail will mount to the M56 intake manifold but is not compatible with M56 injectors.	
	3mm Allen Wrench		
5	oil	Install the adapter fittings (not included) to the three 8AN ORB (3/4-16) threaded ports. Be sure to lubricate the O-rings.	
6	oil	Lubricate the injector O-rings and each injector bore on the fuel rail. One by one, insert the injectors into the fuel rail ports, as shown.	
7		As shown, slide the injector clips to secure the fuel injectors to the fuel rail.	
8a	10mm Socket	BMW M50 and S50 (non ITB) Engines Only Reinstall the two OEM M6x1.0mm mounting bolts.	

8b	10mm Socket	BMW M52 and S52 Engines Only	
		Reinstall the two OEM M6x1.0mm mounting bolts.	
8c	10mm Socket	BMW M52TU and M54 Engines Only	
		Reinstall the four OEM M6x1.0mm mounting bolts.	
9	10mm Wrench	After everything is reinstalled, 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 fuel system. CHECK FOR LEAKS! If none are found, start the engine and check for leaks while the engine is running.	
		INSTALLATION COMPLETE	