



# INSTALLATION INSTRUCTIONS

## FUEL FILTER KIT

### NISSAN

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**CAUTION**

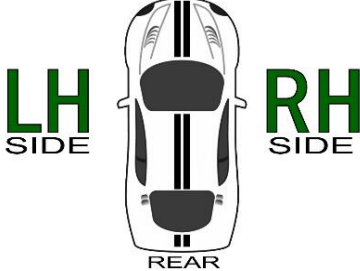



Only a qualified technician following applicable safety procedures should perform the installation of this product. One must have knowledge in repair and modification of fuel systems and general vehicle modifications to install this product.







**Gasoline and other fuels are flammable and can be explosive.**



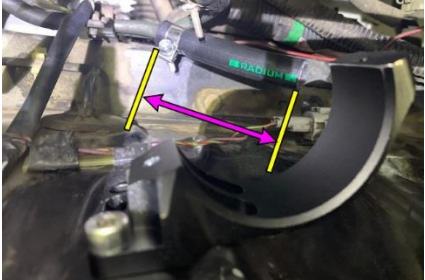

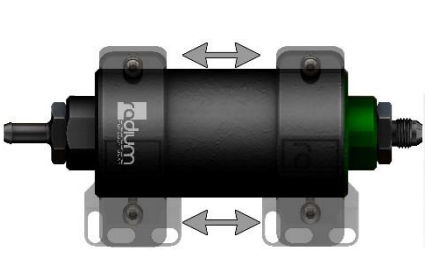

Only install in a well-ventilated location to minimize buildup of fuel vapors. No sparks, open flames, smoking or other ignition sources are to be present. Draining and removal of all fuel from the fuel system is recommended. Proper eye and personal protection is required at all times during installation.







**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		The terms "driver-side" and "passenger-side" will NOT be referenced. As depicted, these instructions will always reference "LH" and "RH" areas of the vehicle.	<p style="text-align: center;">FRONT</p>  <p style="text-align: center;">REAR</p>
2		Reference the factory service manual to find the location of the OEM fuel tank for the specific Nissan application.  Unplug the fuel pump connector. If there are 2 connectors (as shown), both can be removed.	
3		To depressurize the fuel system, start the engine and allow it to stall.  Remove the key from the ignition.  Unscrew the gas tank filler cap temporarily to relieve any residual pressure.	
4	10mm Socket Wrench	Disconnect the battery's negative terminal.  <b>CAUTION:</b> Disconnecting the battery may cancel fault memories of some control units. Consequently, before disconnecting the battery, always cross examine any fault memories.	

5	Screwdriver	The OEM filter is located near the front RH strut tower.	
	10mm Socket Wrench	Disconnect the inlet and outlet fuel lines. Have a rag nearby to catch fuel spills. Slide the fuel filter out from the OEM mounting bracket and remove from the vehicle.	
		Unbolt the OEM fuel filter mounting bracket from the unibody and remove from the vehicle. Nothing will be reused.	
6		The following steps will describe how the included fuel filter mount will secure in the OEM bracket location.	
		NOTE: There are two short M6 bolts, two long M6 bolts, and two spacers (shown in yellow). Depending on the chassis application, some of these will not be used. Please read below.	
7	5mm Allen Wrench	The vehicles listed below require the unique fuel filter position shown.	<p>&lt;FRONT</p>  <p>REAR&gt;</p>
		Nissan (S12) 180ZX, 190SX, 200SX, Gazelle, Silvia	
		Nissan (S13) 180SX, 200SX, 240SX, Silvia	
		Nissan (S14) 200SX, 240SX, Silvia	
		Nissan (S15) 200SX, Silvia	
	NOTES: 1. The short M6x1x14mm Allen bolts will be used. 2. The long M6x1x25mm bolts and spacers will NOT be used. 3. When securing to the unibody, note the proper filter mount orientation with respect to the front and rear of the vehicle (as depicted).		
8	5mm Allen Wrench	This vehicle requires the unique fuel filter position shown.	<p>&lt;FRONT</p>  <p>REAR&gt;</p>
		Nissan (R32) Skyline	
		NOTES: 1. To get a colinear alignment between the OEM hard tube and filter inlet barb, the long M6x1x25mm bolts and spacers must be used. 2. The short M6x1x14mm Allen bolts will NOT be used. 3. When securing to the unibody, note the proper filter mount orientation with respect to the front and rear of the vehicle (as depicted).	
9	5mm Allen Wrench	The vehicles listed below require the unique fuel filter position shown.	<p>&lt;FRONT</p>  <p>REAR&gt;</p>
		Nissan (R33) Skyline	
		Nissan (R34) Skyline	
		NOTES: 1. The short M6x1x14mm Allen bolts will be used. 2. The long M6x1x25mm bolts and spacers will NOT be used. 3. When securing to the unibody, note the proper filter mount orientation with respect to the front and rear of the vehicle (as depicted).	
10	5mm Allen Wrench	This vehicle requires the unique fuel filter position shown.	<p>&lt;FRONT</p>  <p>REAR&gt;</p>
		Nissan (S130) 280ZX	
		NOTES: 1. The long M6x1x25mm bolts and aluminum spacers must be used. 2. The short M6x1x14mm Allen bolts will NOT be used. 3. When securing to the unibody, note the proper filter mount orientation with respect to the front and rear of the vehicle (as depicted).	

11	Oil Lubrication	Lubricate the provided adapter fitting O-rings. Secure to the fuel filter inlet and outlet ports, as shown (barb on inlet, 6AN on outlet).	
	1" Wrench	NOTES: 1. An aluminum wrench will prevent surface finish marring. 2. A multitude of compatible 10AN ORB adapter fittings are available at <a href="http://www.radiumauto.com">www.radiumauto.com</a> . Go to the "10AN ORB FITTINGS" page.	
12		Temporarily install the 90 degree PushLok hose end to the fuel filter outlet. Mockup the fuel filter within the clamp.	
		Verify there is no interference in the vehicle. RHD vehicles, verify brake master cylinder clearance with the PushLok hose end (as shown) prior to cutting the hose.	
13	Hose Cutter	Now check the fuel feed hard line distance with respect to the fuel filter barb. Lineup the hose to verify and cut to length. See below for a general cut length guideline.	
		NISSAN S13      3-1/2" (89mm) NISSAN S14/S15   2-5/8" (67mm) NISSAN R32      2-1/8" (54mm)	
		NOTE: The hose lengths for vehicles not listed above will need to be determined by the installer.	
14	Phillips Screwdriver	Slide the cut hose over the barbed fuel filter inlet and secure using the provided EFI clamp.	
		Slide the hose over the OEM fuel feed tube and secure using the provided EFI clamp. NOTE: This EFI clamp will need to be fully bottomed-out to attain a proper seal.	
15		Slide the fuel filter within the filter clamp to fine tune optimal fitment.	
16	4mm Allen Wrench	Secure the upper filter clamp using the 2 provided M5x0.8mm bolts.	

17	Tape Measure	Temporarily thread in the provided PushLok hose end onto the 6AN fuel filter outlet fitting. Measure the distance between this hose end and the fuel rail tube fitting.	
		NOTE: In the example shown, the rubber hose will connect directly onto an OEM "barbed" fuel rail inlet. This length will differ depending on the engine, chassis, and fuel rail used.	
18	Oil Lubrication	Cut the provided hose factoring in extra length for engine movement. Fully seat the PushLok hose end into the hose, as shown.	
		NOTE: There is a second PushLok hose end provided in the kit. If the vehicle uses an aftermarket fuel rail with a 6AN male inlet fitting, this extra PushLok hose end (not shown) can be installed to the opposite end of the pictured hose.	
19	Phillips Screwdriver	For barbed fuel rail inlets, secure the hose using the provided EFI clamp.	
		NOTE: If securing to an OEM Nissan fuel rail, this EFI clamp will need to be fully bottomed-out to attain a proper seal.	
20		Hand tighten the PushLok hose end(s). Confirm there is enough slack for engine movement.	
21	11/16" Wrench	Secure the PushLok hose end(s).	
		NOTE: an aluminum wrench will prevent surface finishing marring.	
22	10mm Socket Wrench	Reconnect the battery. Switch the ignition to the ON position without starting the engine. This will prime the fuel pump and pressurize the system. Check for leaks and fix any that may have occurred. Start and idle the engine. Recheck for leaks.	
		<b>INSTALLATION COMPLETE</b>	
		NOTE: Service at normal OEM specified fuel filter intervals. Replacement Radium Engineering fuel filter elements are available at <a href="http://www.radiumauto.com">www.radiumauto.com</a> .	