

INSTALLATION INSTRUCTIONS

FUEL FILTER KIT

PORSCHE AWD 911 (996/997.1)

Document: 19-0157
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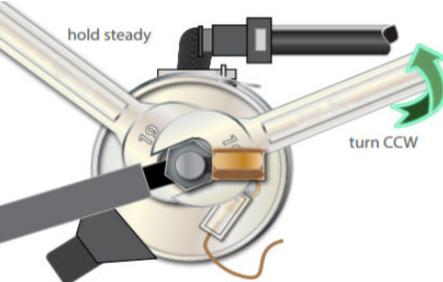
WARNING!

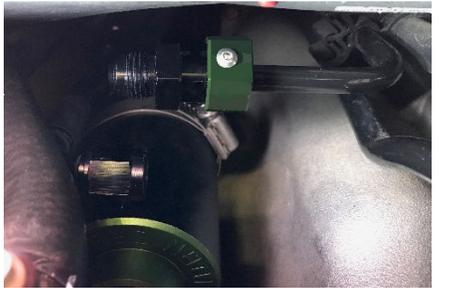
1. DO NOT SMOKE. KEEP SPARKS AND FIRE AWAY.
2. CLEAN UP ALL SPILLS IMMEDIATELY AND PROPERLY DISPOSE OF ALL RAGS.
3. HOOD LATCH IS ELECTRONICALLY ACTUATED. DO NOT CLOSE WITH BATTERY DISCONNECTED.

NOTES:

1. This kit was NOT designed to replace P/N: 1 996 110 253 01 fuel filter that is found underneath similar M.Y. Porsches.
2. This installation was performed on a 2000 Porsche 911 (996) Turbo. Steps may vary depending on the model/year.

STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	10mm Wrench	NOTE: The fuel filter is located on the left side of the engine bay. It is secured to a black mounting bracket by a large worm drive clamp. The black bracket snaps into a mating plastic tab built into the coolant tank. First, open the front trunk. Using a 10mm wrench, unscrew the 4 acorn nuts and remove the fuel pump access cover. Release the fuel pump connector by squeezing the locks and simultaneously pulling upwards. To relieve fuel pressure, start the engine and allow it to stall. Remove the key from the ignition switch.	
2	10mm Wrench	Dislodge the two ¼ fasteners and remove the plastic battery panel on the cowl. Using a 10mm wrench, remove the negative battery terminal. CAUTION: Disconnecting the battery (G1) may cancel the fault memories of some control units. Consequently, before disconnecting the car's battery, always interrogate the fault memories.	
3		Pull the metal wire locking retainer outwards to disengage the compressor pipe connection. Next, pull the pipe towards the left to release it from the plenum, as shown. Bungee or ziptie the rubber compressor pipe out of the area.	
4	13mm Socket Wrench	Remove the M8 screw (shown) that mounts the air box to the chassis using a 13mm socket wrench.	

5	7mm Socket Wrench	Unplug the mass air flow sensor (MAF).	
		Loosen the intake hose clamp using a 7mm socket wrench or a flat head screwdriver (shown).	
6		Pull and rotate the factory air box ~150 degrees to remove it from the vehicle.	
7		Find the SAE quick disconnect fitting located above the fuel filter and have a rag handy.	
		Press the SAE quick disconnect fitting lock and release the fuel tube.	
8		Pull the ground wire tab off the filter body. It is not required to reconnect this with the Radium Engineering fuel filter.	
9	19mm Wrench	<p>The next step requires two 19mm open-ended wrenches. Note: a 3/4" wrench can be used in place of one of the 19mm wrenches.</p> <p>Hold and stabilize the fuel filter fitting with one wrench and spin the hose end counterclockwise with the other wrench. Have a rag handy. Move the outlet hose out of the way. Caution: DO NOT excessively pull this hose. Internally it is plastic tubing and will break if overly stressed.</p> <p>If available, temporarily block the fuel filter outlet fitting with a rubber cap to prevent fuel spilling during the next step.</p>	
	3/4" Wrench		
10		Look low down near the plenum in between the fuel filter and coolant tank. Find the small black plastic locking tab (pictured).	
		Pull the tab towards you and simultaneously tug the fuel filter upwards and out to unlock it from the coolant tank mount.	

11		Now that the fuel filter is detached from the coolant tank, there will be some wriggling required to remove it.	
		Pull the fuel filter over the coolant hose and out of the vehicle in the engine compartment, as shown.	
12	Bucket	Drain the fuel filter into a clean bucket. Fuel can be reused.	
	9mm Nut Driver	Next, use a 9mm nut driver to loosen the worm drive clamp. Pull the black plastic bracket off the old fuel filter body, as shown.	
		NOTE: The black plastic mount will be reused. The OEM worm drive clamp will not be reused.	
13	Light Oil	Install the M16x1.5mm fitting to the fuel filter outlet (lubricate O-ring).	
	1" Wrench	Install the -6AN male fitting to the fuel filter inlet (lubricate O-ring).	
	11/16" Wrench	Install the 180 degree PTFE hose fitting to the -6AN male fitting.	
	3/4" Wrench	Slide the OEM black plastic mount and included stainless steel worm drive clamp onto the filter body, as shown.	
14	5/16" Nut Driver	Proper clocking is required. Reference the orientation pictured.	
		NOTE: Tightening the clamp should be performed after the fuel filter is installed and the PTFE hose is lined up with the OEM male fitting.	
15	Light Oil	Place the filter assembly into the engine bay. Using a 19mm and 1" wrench tighten the OEM hose end to the fuel filter outlet fitting. Insert the OEM black plastic tab through the slot in the coolant tank mount. Lower the inlet side of the filter down until it snaps in place.	
	19mm Wrench		
	1" Wrench	Next, remove the green lock and then lubricate the O-rings inside the included SAE female adapter fitting. Fully insert the fitting into the OEM SAE male fitting. Carefully reinstall the small screw, as shown. Install the 90 degree PTFE hose fitting to the -6AN male fitting. If necessary, slide the filter back or forward until they line up properly.	
	5/64" Allen Wrench		
16		Reinstall all components in reverse order. Reconnect the battery.	
		Switch the ignition to the ON position without starting the engine. This will prime the fuel pump and pressurize the fuel system. Check for leaks and fix any that may have occurred. Start and idle the engine. Recheck for leaks. INSTALLATION COMPLETE.	
		Service at normal OEM specified intervals (60,000 miles). Replacement Radium fuel filter elements are available at www.radiumauto.com .	
		NOTE: The 18-0025-03 stainless steel element is washable.	