



Performance Shortram Air Intake Kit Part Number: 827-612

2013-2018 Toyota RAV4 2.5L

Installation Instructions

For technical inquiries please email us at tech@hpsperformanceproducts.com

In the email, please include the following information for faster response:

- Year / Make / Model / Engine of your vehicle.
- If it is a fitment issue, please include pictures showing the fitment problem.
- If there are missing parts, please list the part number(s) from the bill of materials on the 2nd page.
- Optional but recommended – Your contact phone number and preferred call back time.

You can also give us a call via 626-747-9200 for tech support Monday-Friday, 9:00am-5:00pm Pacific Time.

Bill of Material

Part Number: 827-612

Description	Prep	Part Number	Qty	Check
Intake Pipe	1	529-118	1	
3" HPS Air Filter	2	HPS-4276	1	
Heat Shield	2	HS-404	1	
Intake Bracket	3	530-119	1	
Sensor Bracket	3	530-120	1	
3" Silicone Coupler, 2.5" Long	3	P3SC-300-L25	1	
T-bolt Clamp, 79mm-87mm	3	SSTC-79-87	2	
Worm Gear Clamp for Heatshield	3	EMSC-80-100	1	
8mm washer, 16mm OD	3	HW-FW8S	1	
6mm washer, 16mm OD	3	HW-FW6L	2	
5mm washer, 10mm OD	3	HW-FW5L	1	
6mm Bolt, 12mm Long	3	HW-B6-12	2	
4mm Bolt, 8mm Long	3	HW-B4-8	2	
5/16" Vacuum Cap	3	HW-VC-032	1	

- Before installing any parts of this intake system, please read the instructions thoroughly.
- Verify the contents of this intake kit before disassembling your vehicle.
- DO NOT INSTALL IF ANY PARTS ARE MISSING OR DAMAGED. CONTACT tech@hpsperformanceproducts.com IMMEDIATELY. WE ARE NOT RESPONSIBLE FOR ANY DAMAGE CAUSED DUE TO IMPROPER INSTALLATION.
- Installation requires moderate mechanical skills. A qualified mechanic is highly recommended.
- Do not attempt to install the intake system while the engine is hot.
- This installation may require removal of coolant lines that may be hot.
- For technical inquiries, please e-mail us at tech@hpsperformanceproducts.com

PLEASE READ CAREFULLY BEFORE INSTALLATION!

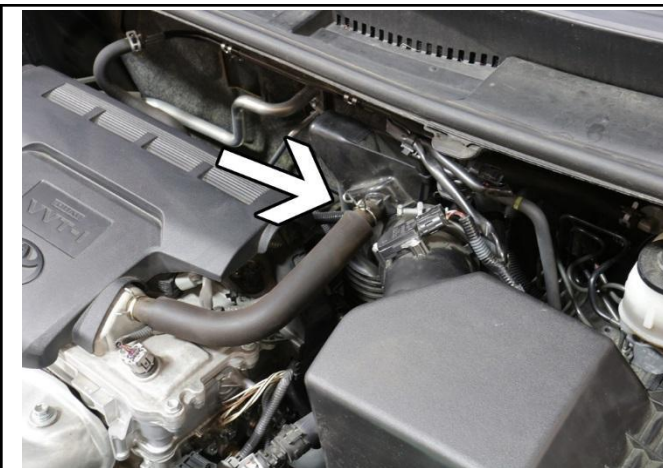
This installation is not for the novice customer. Install this product with EXTREME caution! Misuse of this product can destroy your engine! If you are not mechanically inclined, please have a professional automotive mechanic install this kit.

NOTE: HPS holds no responsibility for any engine damage that results from misuse of this product.

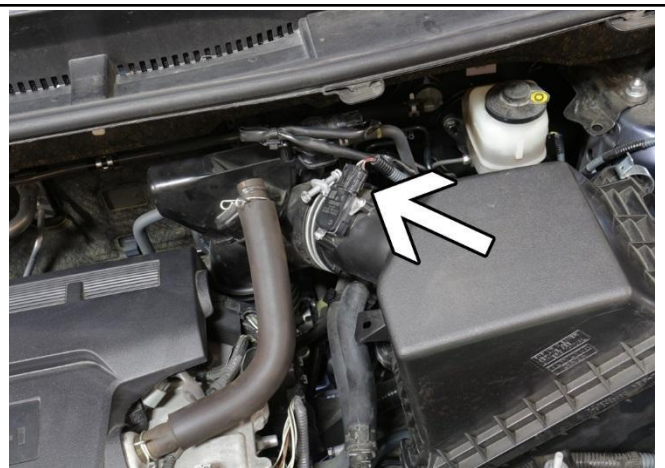
GETTING STARTED

1. Turn the ignition OFF and disconnect the vehicle's negative battery cable. If the engine has run within the past two hours let it cool down.

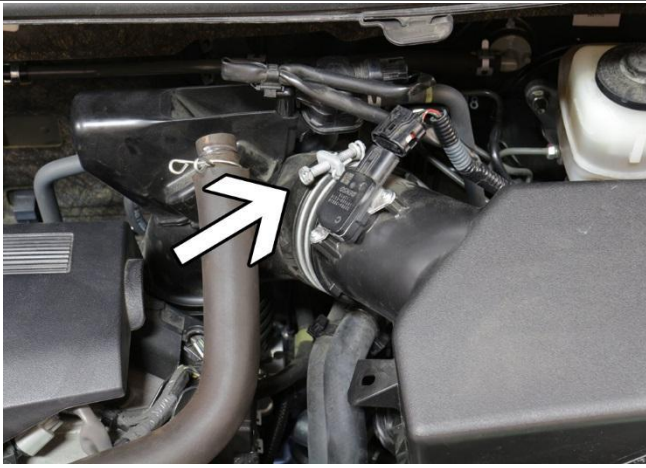
NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied with your owner's manual. In the event your vehicles' anti-theft code cannot be recovered, contact an authorized dealership to obtain your vehicle's anti-theft code. We also highly recommend NOT discarding any stock parts after the installation.



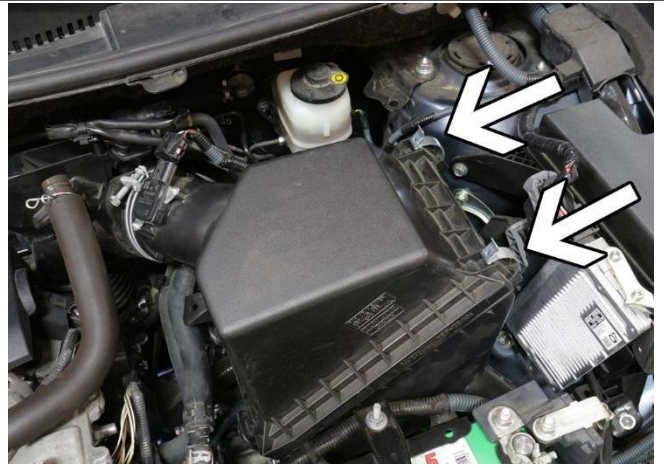
2. Disconnect the stock breather hose from the intake tube.



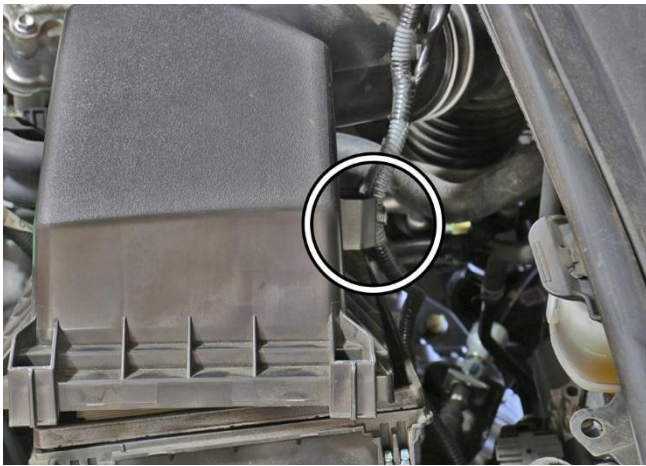
3. Disconnect the mass air flow (MAF) sensor harness.



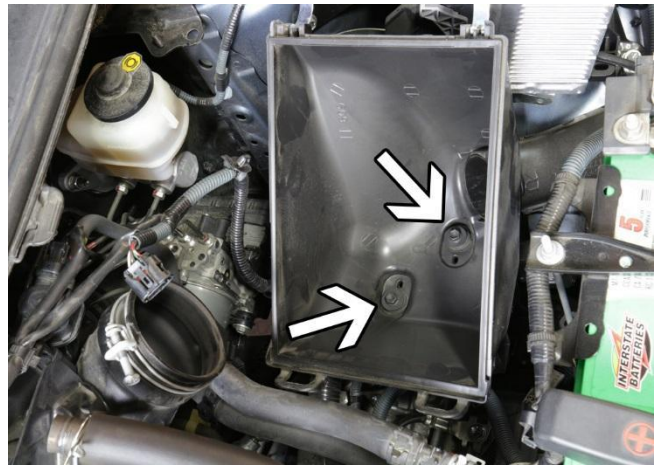
4. Loosen the hose clamp on the air box side.



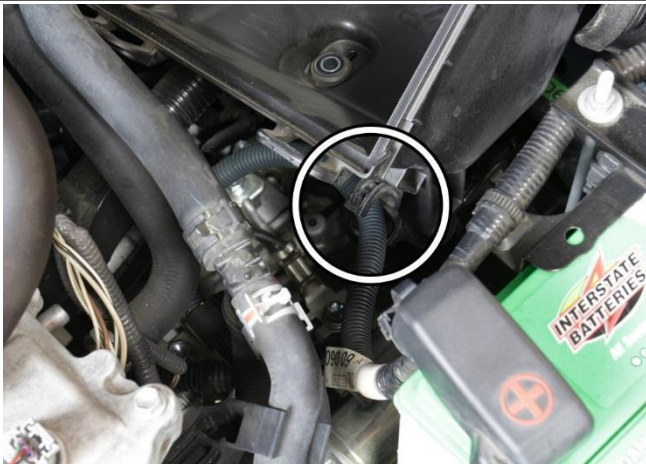
5. Unbuckle the top of the air box to have easier access to the MAF sensor harness.



6. Unclip the MAF sensor harness from the air box and remove the top portion of the air box from the vehicle.



7. Loosen and remove the two bolts from the vehicle.



8. Unclip the bracket holding the battery harness.



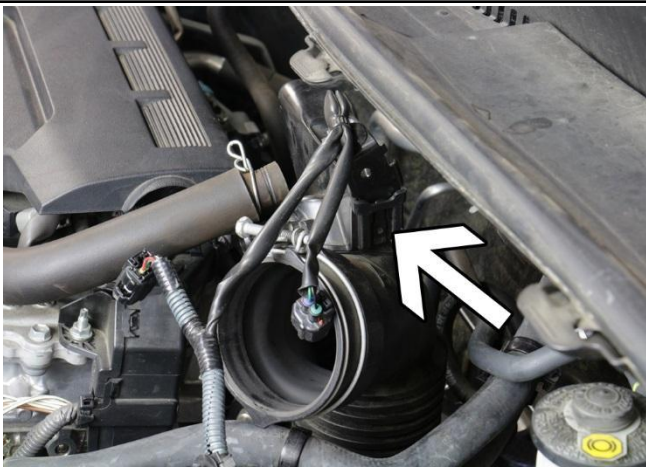
9. Unclip the MAF harness from the lower part of the air box and remove the air box from the vehicle.



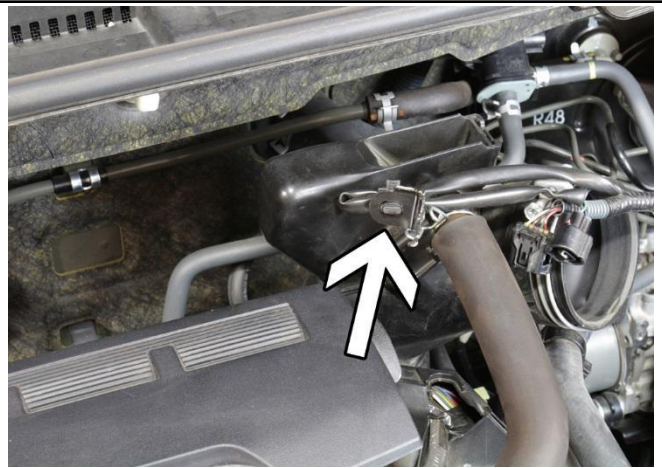
10. Disconnect the evap. Sensor harness from the solenoid.



11. Use a Phillips screwdriver to remove the evap. sensor from the intake hose. Save the factory screw for use later in the installation.



12. Lift and remove the evap. sensor bracket.



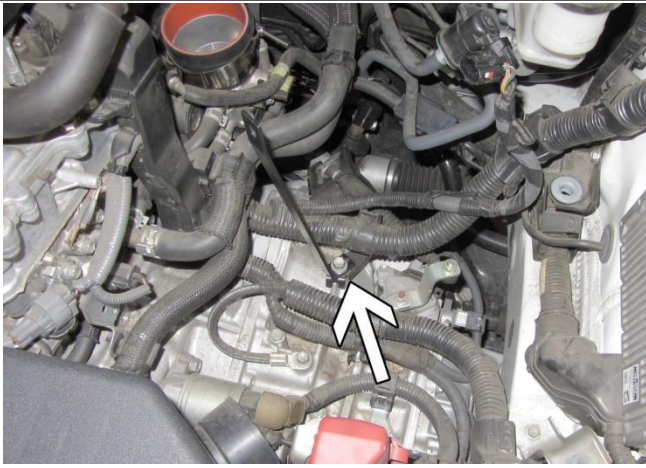
13. Unclip the evap. sensor bracket from the harness and remove the bracket from the vehicle.



14. Disconnect the evap. sensor hose from the solenoid, then loosen the lower clamp securing the stock intake tube and remove it from the vehicle.



15. Install the HPS coupler onto the throttle body and tighten with the T-bolt clamp included in the hardware kit.



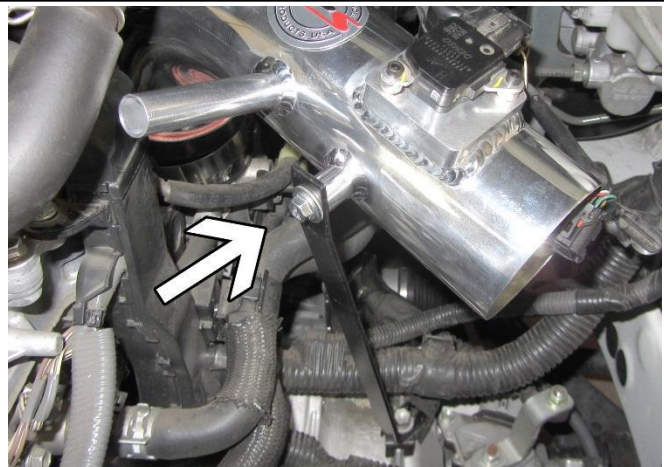
16. Remove the indicated bolt located on the transmission and install the intake bracket reusing the factory bolt.



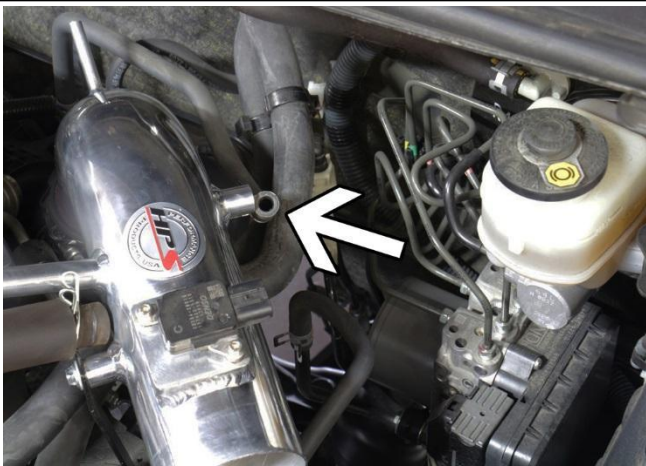
17. Remove the MAF sensor from the stock air box and transfer it over to the HPS intake pipe. Use the included 4mm Allen bolts to secure it to the pipe.



18. If your vehicle has an additional hose, install it onto the intake pipe. If your vehicle does not have the additional hose, use the 5/16" vacuum cap included in the kit to block it off.



19. Install the intake pipe onto the throttle body and secure the pipe using a 6mm bolt and washer onto the intake bracket.



20. Reroute the evap. hose under the heater hoses.



21. Connect the evap. hose back onto the solenoid.



21. Install the sensor bracket onto the pipe using a 6mm bolt and washer, and secure the evap. sensor onto the bracket reusing the factory screw.



22. Install the factory breather hose onto the intake pipe.



23. Reconnect the MAF harness.



24. Follow the heat shield instruction to install the heat shield onto the air filter. Install the air filter with the heat shield onto the intake pipe.

Final Steps

Once the intake has been positioned, tighten all of the clamps and secure all of the parts.

Upon completion of the installation, reconnect the negative battery terminal before you start the engine. Double check to make sure everything is tight and properly positioned before starting the vehicle.

Start the engine. Let the car idle for 3 minutes. Perform a final inspection before driving. Listen carefully for any odd noises, rattles and/or air leaks prior to taking it for a test drive. If any problems arise go back and check the vacuum lines, hoses and clamps that may be causing leaks or rattles and correct the problem.

Periodically, recheck the alignment of the intake system and make sure there is proper clearance around and along the length of the intake. Failure to follow proper maintenance procedures may cause damage to the intake and will void the warranty.

