



Performance Shortram Air Intake Kit Part Number: 827-690

2003-2004 Toyota 4Runner 4.7L V8

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 Materials

Kit Number: 827-690

Description	Prep	Part Number	Qty	Check
Air Intake Pipe	1	529-378	1	
Heatshield	2	531-600	1	
Heatshield lid	2	531-601	1	
Bracket #1	3	530-599	1	
Bracket #2	3	530-371	1	
Bracket #3	3	530-369	1	
6" HPS Performance Air Filter	4	HPS-4303	1	
3.00" - 3.50" 45 Degree Reducer Coupler	5	27-618-45	1	
3.00" - 3.25" 90 Degree Reducer Coupler	5	27-618-90	1	
T-Bolt Clamp for 3.50" Hose	5	SSTC-95-103	1	
T-Bolt Clamp for 3.25" Hose	5	SSTC-89-97	1	
T-Bolt Clamp for 3.00" Hose	5	SSTC-79-87	2	
Embossed Clamp for Breather Hose	5	EMSC-12-22	2	
Fuel Injection Clamp for 6mm EPDM Hose	5	FIC-10	2	
Fuel Injection Clamp for 4mm EPDM Hose	5	FIC-9	2	
Breather Hose 35/64 x 14" Long (14mm)	5	EPDM-056	1	
Breather Hose 1/4 x 10" Long (6mm)	5	EPDM-025	1	
4mm Vacuum Hose x 16 inches	5	HTSVH4-BLK	1	
Rubber Vibration Mount 8mm 1" Tall	5	HW-RM8-100	1	
Rubber Vibration Mount 6mm 1/2" Tall	5	HW-RM6-50	2	
6mm Bolt x 16mm Long	5	HW-B6-16	3	
6mm Bolt 12mm Long	5	HW-B6-12	2	
6mm Flat Washer 16mm OD	5	HW-FW6L	9	
6mm Flange Nut	5	HW-N6	5	
8mm Flat Washer 24mm OD	5	HW-FW8L	2	
8mm Flange Nut	5	HW-N8	2	
5mm Allen Bolts x 12mm Long	5	HW-B5-12	8	
Thin Edge Trim x 25 inches	5	Thin Edge Trim	1	
Bubble Edge Trim x 30 inches	5	Bubble Edge Trim	1	
Velocity Stack 3.5" to 6" inlet	5	HW-VS-350-600	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.
- Report any defective or missing parts to HPS directly. The HPS dealer you purchased this product from might not have the replacement parts you need.
- 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.

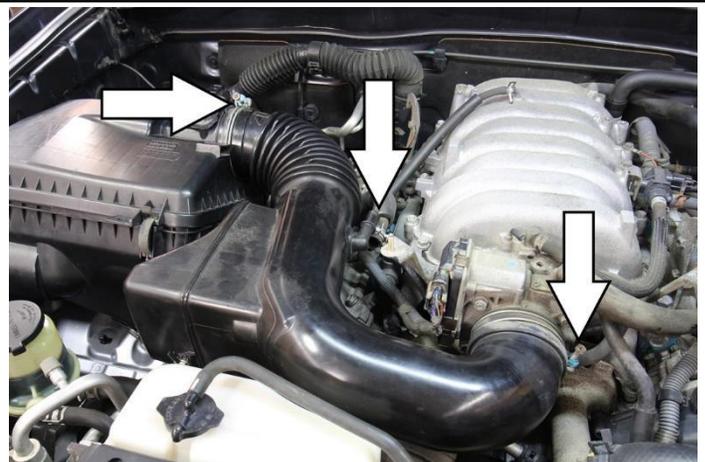
GETTING STARTED

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.

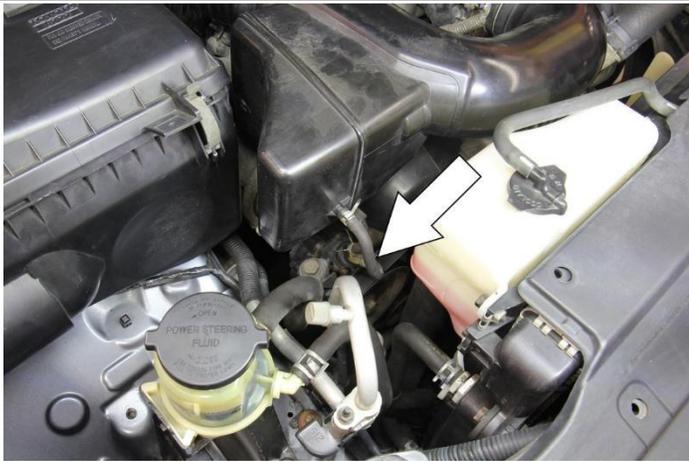
NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied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



2. Remove the two 10mm bolts securing the engine cover and remove the engine cover from the vehicle.



3. Remove the vent hose located on the side of the stock intake tube and loosen the hose clamps located on the air box and the throttle body.



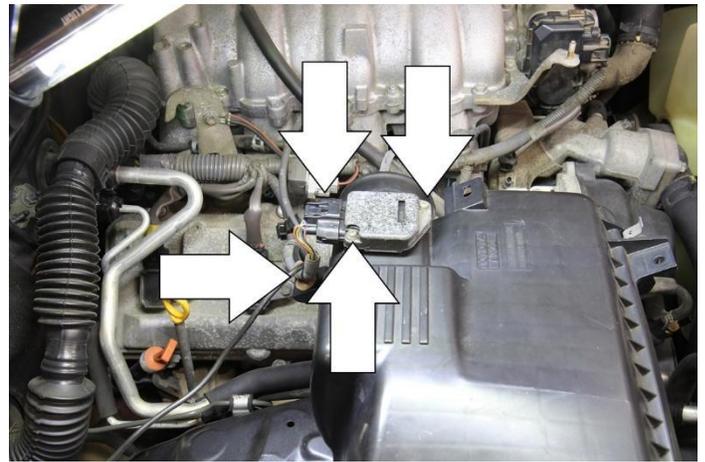
4. Remove the vent hose from the intake resonator and air control valve.



5. Remove the other vent hose located on the intake resonator before removing the intake tube from the vehicle.



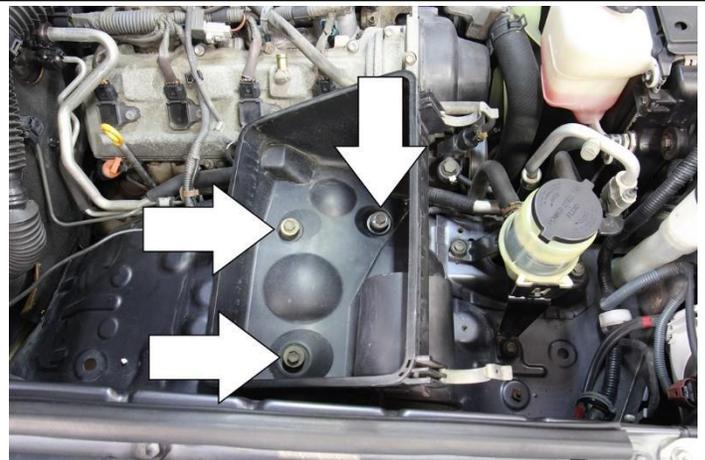
6. Remove the crank case breather hose and install the provided 14mm EPDM hose and clamps to replace the stock breather hose



7. Disconnect the Mass Air Flow connector from the sensor. Remove the wire clip from the air box. Remove the Mass Air flow sensor from the stock air box.



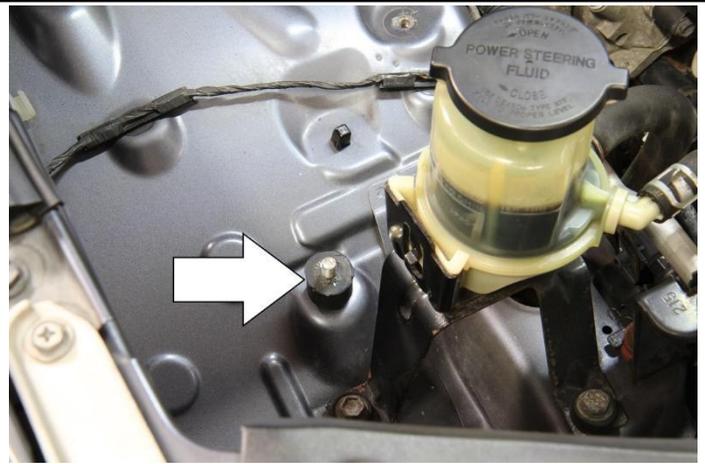
8. Loosen the four retaining clips securing the top portion of the air box and remove it from the vehicle.



9. Remove the three 12mm bolts holding the lower part of the air box and remove the lower air box from the vehicle.



10. Assemble the provided parts together as shown in the picture above. 1 inch tall vibration mount with a 8mm flange nut first and a 8mm flat washer last.



11. Install the assembled M8 vibration mount onto the vehicle with the washer and flange nut facing the body of the car.



12. Remove the ground wire from the vehicle.



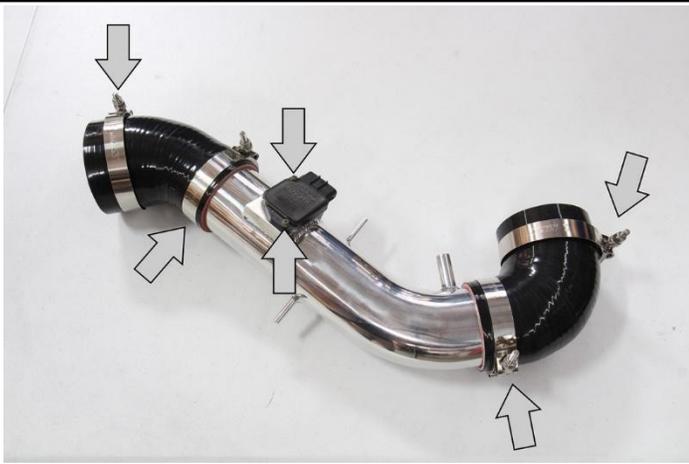
13. Re-mount the ground wire located in the image above re-using the factory ground bolt.



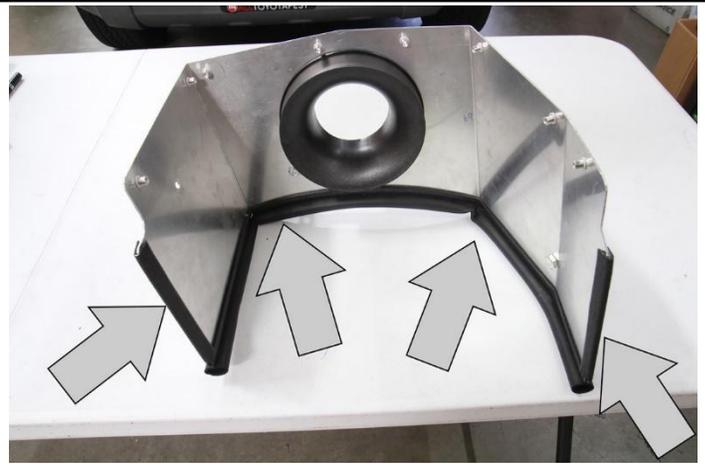
14. Install the 1/2" vibration mount into the location where the ground wire was removed.



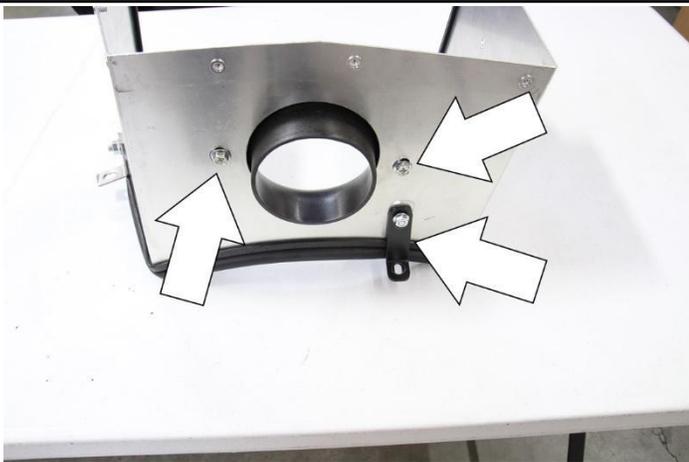
15. Install the longest heatshield bracket onto the rubber mount.



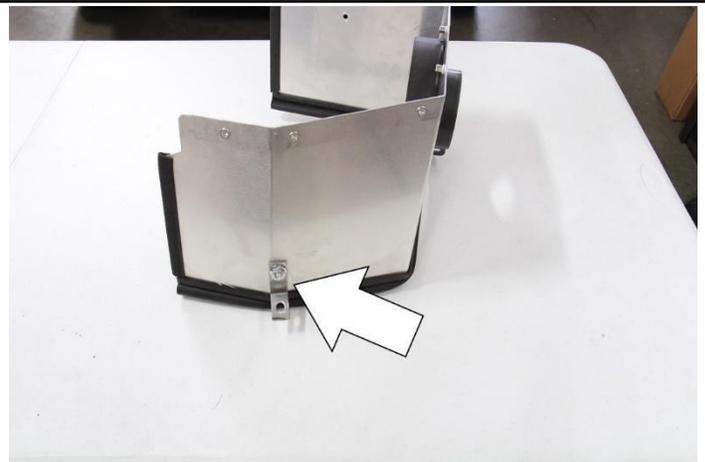
16. Assemble the intake shown in the picture above. Install the factory MAF sensor onto the intake pipe.



17. Install Bubble and thin edge trim as show in the picture above.



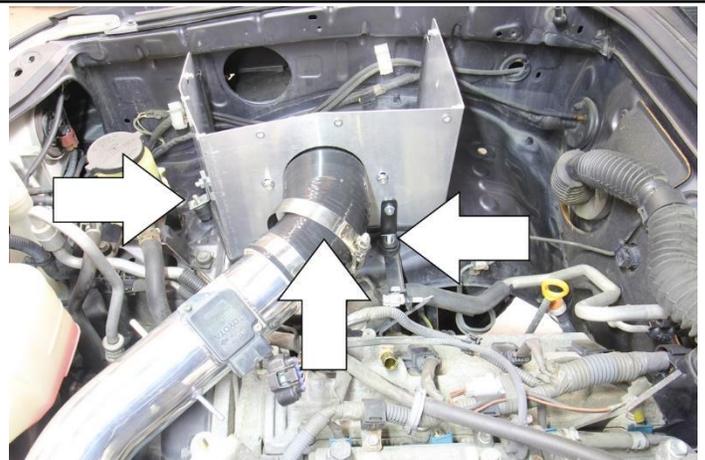
18. Install and secure the provided "L" bracket using a M6 x16mm bolt, nut and washers. Install and secure the velocity stack onto the heat shield using two M6x12mm bolts and washers.



19. Install and secure the provided "L" bracket using a M6x16mm bolt, nut and washers on the inside of the heatshield.



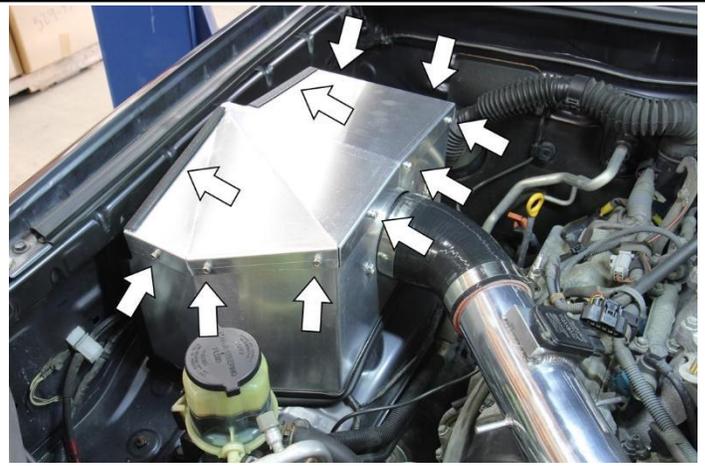
20. Install the pre assembled intake onto the throttle body. *Do not tighten clamps yet because you will need to adjust the intake to the correct the positon later on.



21. Insert the heat shield into the vehicle. Align the brackets to vibration mount studs and at the same time insert the coupler into the velocity stack.



22. Mount the rear heatshield bracket using the provided M6 x 16mm bolt, nut, and washer. Install HPS Performance air filter.



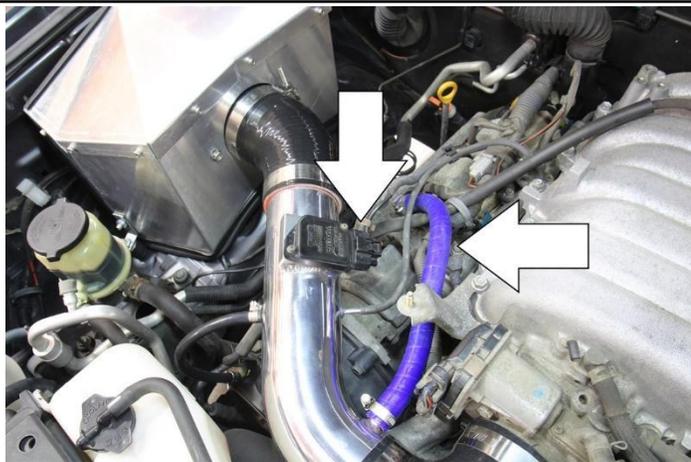
23. Install the thin edge trim on the heatshield lid as shown in the picture above. Use the provided 5mm allen bolts to secure the heatshield lid.



24. Install and secure the provided 6mm EPDM power steering air control valve hose with (2) 10mm clamps.



25. Install the provided 4mm vacuum hose with (1) 9mm clamp on the intake side and (1) 8mm clamp on the regulator side.



26. Install the provided 14mm breather hose with (2) embossed clamps.



27. Re-install engine cover back into the vehicle.

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.

HPS Silicone Radiator Hose + Heater Hose Kit(Black/Blue/Red) with Stainless Steel Clamps

is now available for 03-09 4Runner/ GX470 4.7L V8!



MSRP: \$200

Contact our authorized dealers for the best pricing

or

Visit our website at www.hpsperformanceproducts.com for more details