



Performance Shortram Air Intake Kit Part Number: 827-618

2003-2004 Lexus GX470 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: 827-618

Description	Prep	Part Number	Qty	Check
Upper Air Intake Pipe	1	529-378	1	
HPS Air Filter	2	HPS-4303	1	
Heat Shield	3	531-371	1	
Bracket #1	4	530-369	1	
Bracket #2	4	530-370	1	
Bracket #3	4	530-371	1	
T-Bolt Clamp for 3.5" Hose	5	SSTC-95-103	1	
T-Bolt Clamp for 3.25" Hose	5	SSTC-86-94	1	
T-Bolt Clamp for 3" Hose	5	SSTC-79-87	2	
3" - 3.25" 90 Degree Reducer Coupler	5	827-618-90	1	
3" - 3.50" 45 Degree Reducer Coupler	5	827-618-45	1	
Embossed Clamp for Breather Hose	5	EMSC-12-22	2	
Clamp for 6mm EPDM Hose	5	FIC-10	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 x 1" Tall	5	HW-RM8-100	1	
Rubber Vibration Mount 6mm x 1/2" Tall	5	HW-RM6-50	1	
6mm Bolt x 16mm long	5	HW-B6-16	3	
6mm Bolt x 12mm long	5	HW-B6-12	2	
6mm Flat Washer x 16mm OD	5	HW-FW6L	9	
6mm Flange Nut	5	HW-N6	4	
8mm Flat Washer 24mm OD	5	HW-FW8L	1	
8mm Flange Nut	5	HW-N8	1	
5mm Allen bolts x 12mm Long	5	HW-B5-12	9	
Thin Edge Trim x 25 inches	5	Thin Edge Trim	1	

- Report any defective or missing parts to HPS directly. The authorized HPS dealer you purchased this product from might not have the correct parts you need.
- Before installing any parts of this system, please read the instructions thoroughly.
- Installation DOES require some mechanical skills. A qualified mechanic is always recommended.
- Do not attempt to install the intake system while the engine is hot.
- The installation may require removal of radiator fluid lines that may be hot.
- For technical inquiries, please e-mail us at tech@hpsperformanceproducts.com

PLEASE READ CAREFULLY BEFORE INSTALLATION!

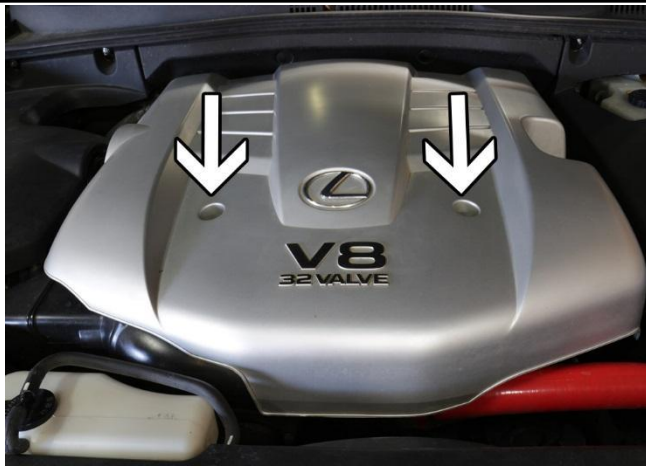
This installation is not for the novice customer. Install this system with EXTREME caution! Misuse of this product can destroy your engine! If you are not well versed in the installation of intakes and if you are not mechanically inclined, please have a tuner shop install this kit.

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

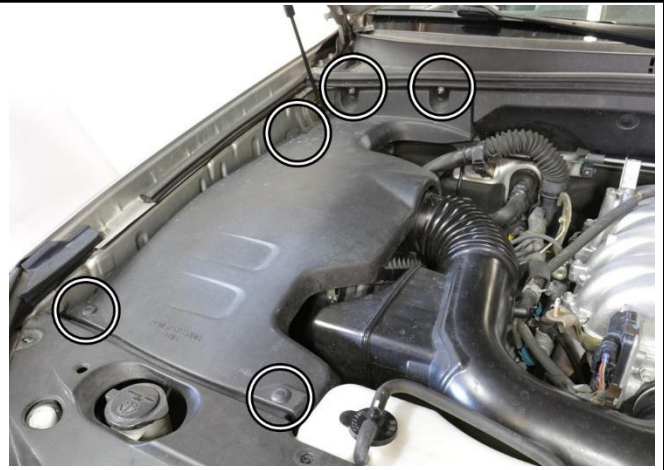
GETTING STARTED

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.



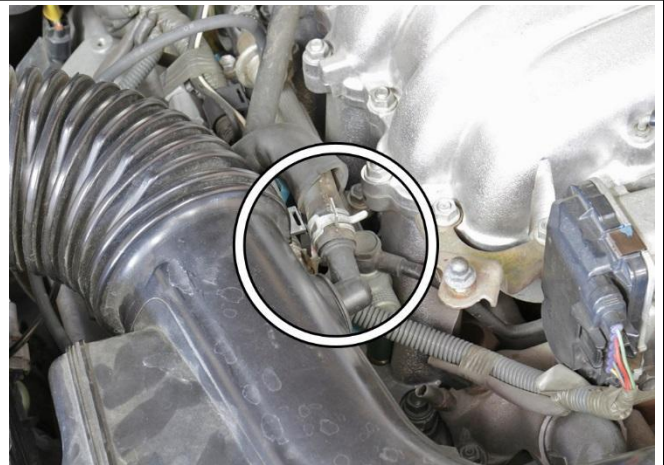
2. Remove the two 10mm bolts securing the engine cover and remove the engine cover from the vehicle.



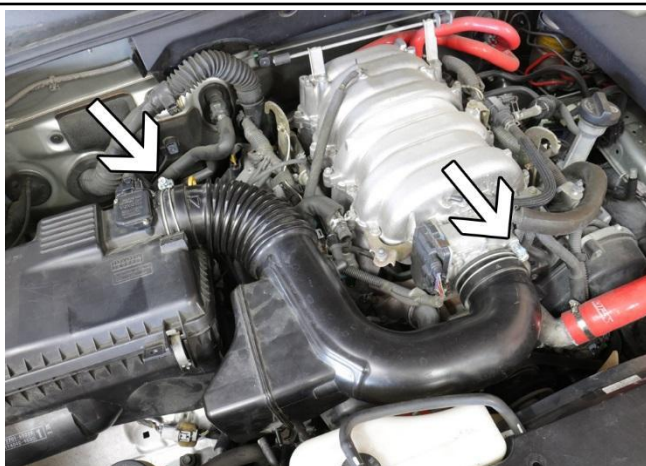
3. Remove the plastic nuts and the clips from the air box cover panel and remove the panel from the vehicle. *Note* Toyota 4runners are not equipped with the air box cover panel. Skip to step 4.



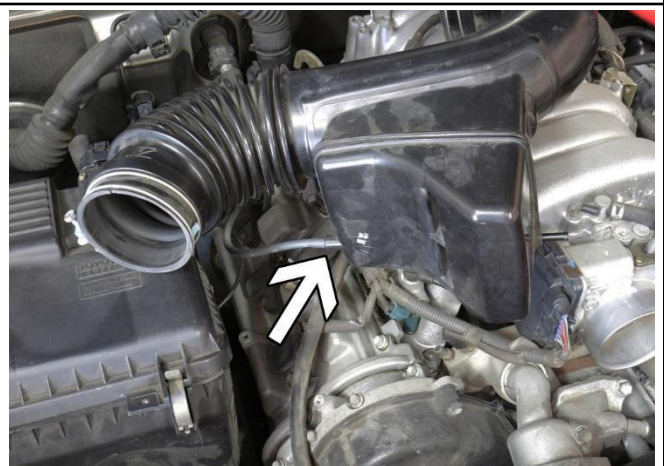
4. Remove the vent hose from the intake resonator.



5. Remove the vent hose located on the side of the stock intake tube.



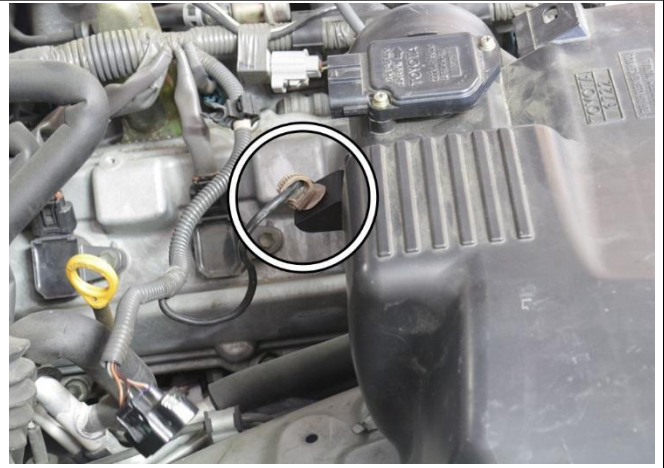
6. Loosen the hose clamps located on the air box and the throttle body.



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



8. Disconnect the Mass Air Flow connector from the sensor.



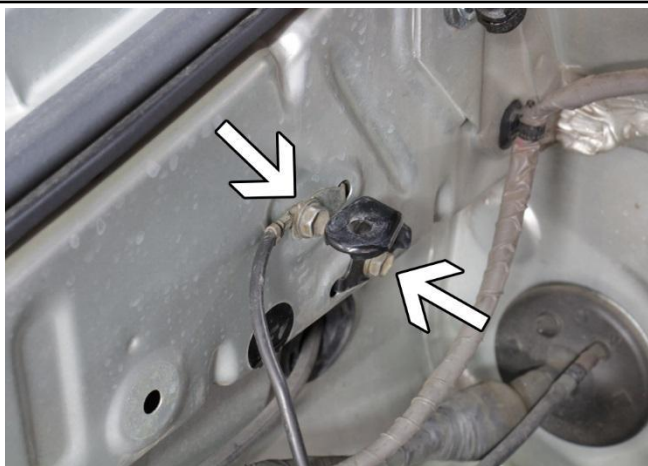
9. Remove the wire clip from the air box.



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



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



12. Remove the air box cover mount as well as the ground wire from the vehicle.



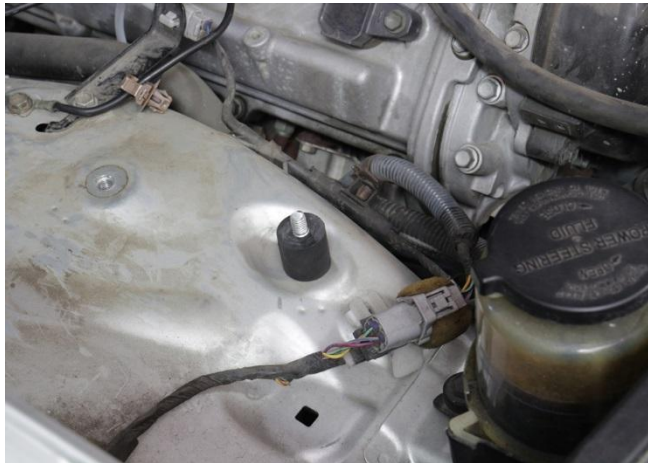
13. Re-mount the ground wire located in the image above.



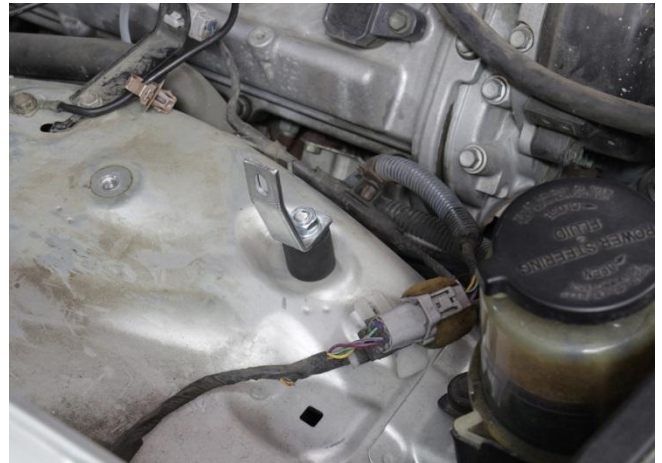
14. Install the rubber mount into the location where the ground wire was removed.



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



16. Install the M8 vibration mount onto the vehicle.



17. Install the shortest heat shield bracket onto the M8 vibration mount.



18. Remove the 12mm bolt securing one of the mounts on the power steering reservoir.



19. Install the remaining heat shield bracket onto the power steering mount and re-use the 12mm bolt to secure the bracket.



20. Install the 90-degree coupler along with the provided t-bolts clamps onto the throttle body.



21. Remove the Mass Air flow sensor from the stock air box and onto the HPS intake.



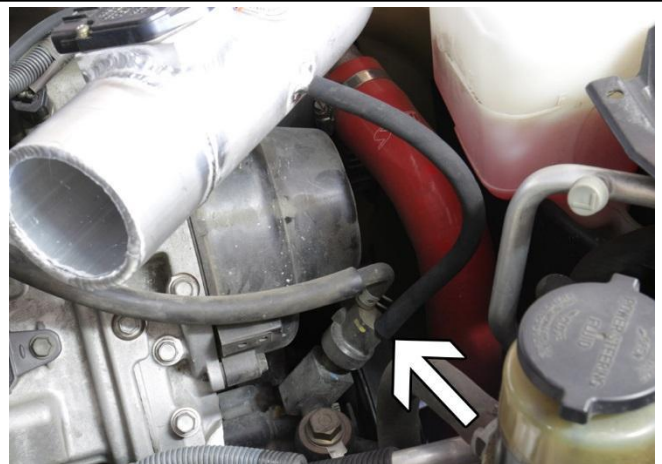
22. Insert the HPS intake into the 90-degree coupler. Remove the factory fuel pressure vacuum hose and install the 4mm vacuum hose provided in the hardware kit and install it onto the intake pipe barb.



23. Remove the crank case breather hose and install the 14mm EPDM hose to replace the stock breather hose.



24. Install the 14mm breather hose onto the intake pipe barb and secure the hose using the two EMSC-12-22 clamp provided in the kit.



25. Remove the stock power steering pressure hose and replace the hose with our provided 6mm EPDM hose and secure the hose with the two FIC-10 clamps.



26. Install the provided 45° Degree coupler onto the other end of the intake pipe along with the provided t-bolt clamps. * Do not tighten the clamps yet because you will need to adjust the hose to the correct position later on.



27. Install the heat-shield into the vehicle. Secure the brackets onto the heat-shield with the provided nuts, bolts, and washers.



28. Install the velocity stack onto the provided HPS air filter.



29. Insert the air filter through the heat-shield and into the 45-degree coupler. Align the velocity stack with the slots on the heat-shield and secure the velocity stack with the provided 6mm x 12mm long bolts and washers.



30. Position the intake to the correct position and tighten all the t-bolt clamps to secure the intake pipe.



31. Install the heat-shield lid onto the heat-shield.



32. Re-connect the MAF sensor harness connector back onto the sensor.



33. ****OPTIONAL**** Re-install the engine cover into 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 vehicle. 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