



Performance Shortram Air Intake Kit

Part Number: 827-549

2015-2019 Hyundai Sonata 2.4L
2016-2020 Kia Optima 2.4L

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: 827-549

Description	Prep	Part Number	Qty	Check
HPS Intake Pipe	1	529-223	1	
HPS Air Filter	2	HPS-4276	1	
Heat Shield	3	HS-404	1	
T-Bolt Clamp for 3" Hose	4	SSTC-79-87	2	
Worm Gear Clamp for Heatshield	4	EMSC-80-100	1	
Worm Gear Clamp for 9.5mm Hose	4	EMSC-10-16	2	
Worm Gear Clamp for 12.7mm Hose	4	EMSC-12-22	2	
3" Straight Coupler x 2.5" Long	4	P3SC-300-L25	1	
9.5mm Vacuum Hose, 15" Long	4	HTSVH95-BLK	1	
12.7mm Vacuum Hose, 20" Long	4	HTSVH127-BLK	1	
Intake Bracket	4	530-224	1	
6mm Bolt x 12mm Long	4	HW-B6-12	1	
6mm Flat Washer x 16mm OD	4	HW-FW6L	1	
8MM Flange Nut	4	HW-N8	1	
8mm Flat Washer x 24mm OD	4	HW-FW8L	1	
Rubber Vibration Mount 8mm x 1" Tall	4	HW-RM8-100	1	
Vacuum Cap for 3/8" barb	4	HW-VC-038	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.

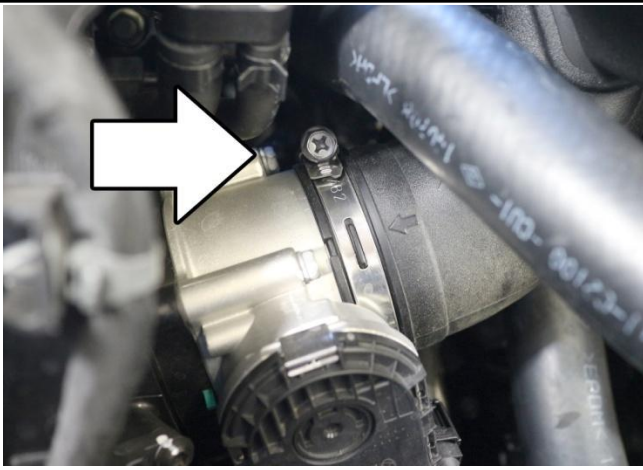
NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied 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.



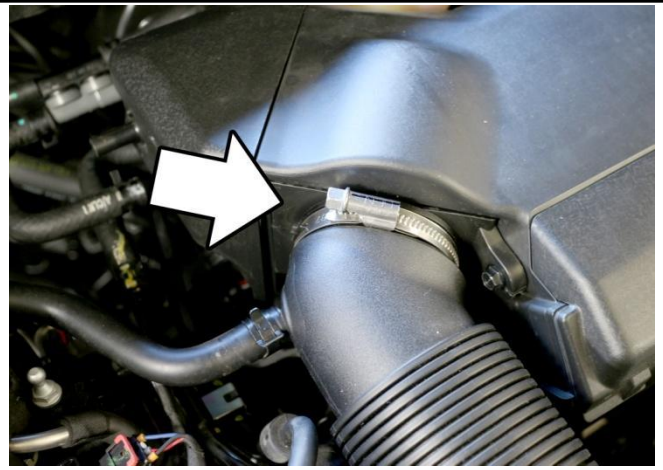
2. Remove the air duct by removing the 3 plastic screw rivets indicated.



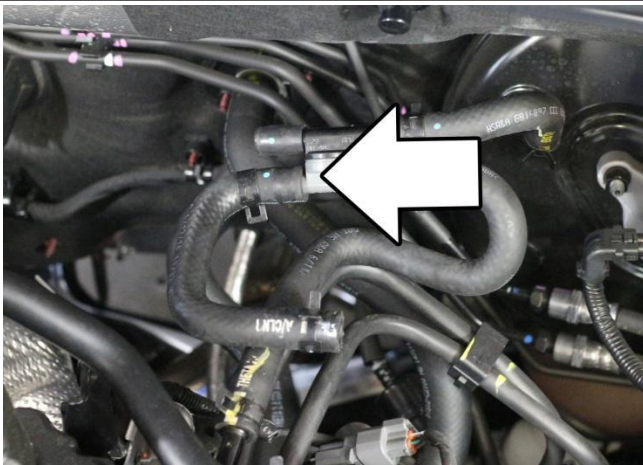
3. Remove the engine cover by pulling up at each corner as shown in the image.



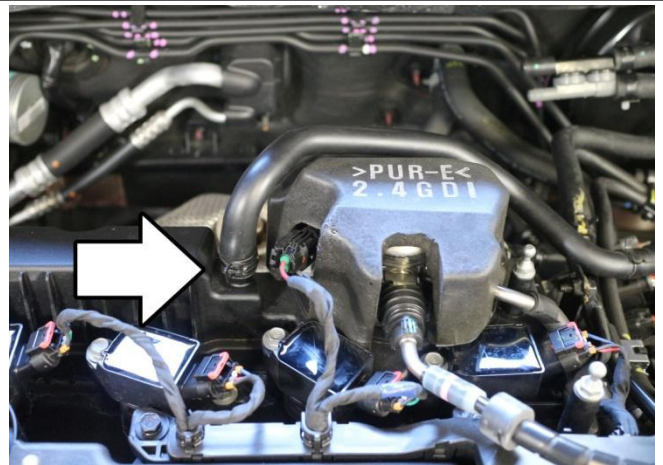
4. Loosen the clamp securing the intake tube to the throttle body.



5. Loosen the clamp at the air box.



6. Disconnect the hose from the check valve indicated in the image.



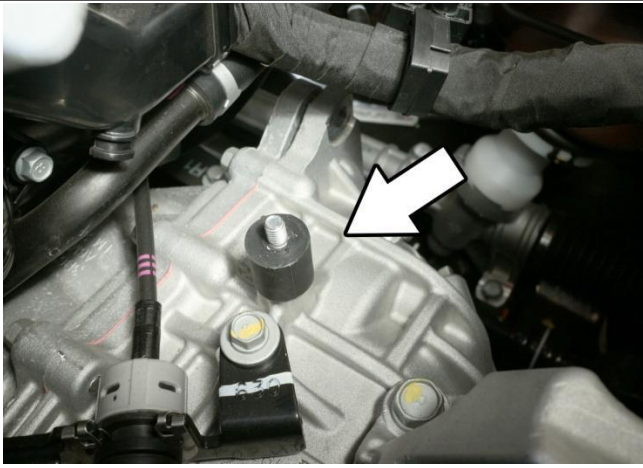
7. Disconnect the breather hose from the valve cover. Once both hoses are disconnected, remove the intake tube from the engine bay.



8. Remove the air box by using a 10mm socket on an extension on the 2 bolts indicated in the image.



9. Install the silicone coupler onto the throttle body along with the two T-bolt clamps.



10. Install the vibration mount onto the transmission as indicated.



11. Insert the HPS intake pipe into the coupler.



13. Install the intake bracket onto the vibration mount with the m8 nut and washer, then mount the bracket to the intake pipe with the m6 washer and bolt.



14. Install the included hoses onto the check valve and valve cover, and connect them to the corresponding ports on the intake pipe. If your vehicle is not equipped with the check valve, install the vacuum cap on the intake pipe.



15. Install the heat shield onto the HPS air filter. Then, install the air filter onto the intake pipe.



16. Re-install the air duct.

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.

