



Performance Air Intake Kit

Part Number: 827-712

Kia 2021-2024 K5 1.6L Turbo

Hyundai 2020-2023 Sonata 1.6L Turbo

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: 827-712

Line #	Description	Part Number	Qty
1	Air Intake Pipe	529-896	1
2	Heat shield, Lower	531-352	1
3	Heat shield, Upper	531-353	1
4	M6 Threaded Mounting Rod	530-897	1
5	HPS Performance Air Filter	HPS-4302	1
6	3.25" Coupler x 2.00" Long	P3SC-325-L2	2
7	3.25" to 3.50" - 45 Degree Hose	CH-16K5	1
8	Embossed Clamp for 3.50" Hose	EMSC-80-100	1
9	Embossed Clamp for 3.25" Hose	EMSC-70-90	5
10	Bolt, M6 x 1.0, 12mm Long	HW-B6-12	1
11	Bolt, M6 x 1.0, 16mm Long	HW-B6-16	2
12	Bolt, M5 x .8, 12mm Long	HW-B5-12	2
13	M6 Flat Washer 16mm OD	HW-FW6L	7
14	M6 Flange Nut	HW-N6	4
15	M6 Rubber Vibration Mount x 1/2"	HW-RM6-50	3
16	Velocity Stack 3.5" to 6" Inlet	HW-VS-350-600	1
17	M6 Mounting Bung for Rubber Grommet	HSM-M6-1028	1
18	Bubble Edge Trim	BUBBLE EDGE TRIM	67 inches
19	Thin Edge Trim	THIN EDGE TRIM	9 inches

- Before installing any parts of this intake kit, 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 kit while the engine is hot.
- This installation may require removal of coolant lines that may be hot.
- For technical inquiries, please email us at tech@hpsperformanceproducts.com

PLEASE READ CAREFULLY BEFORE INSTALLATION!

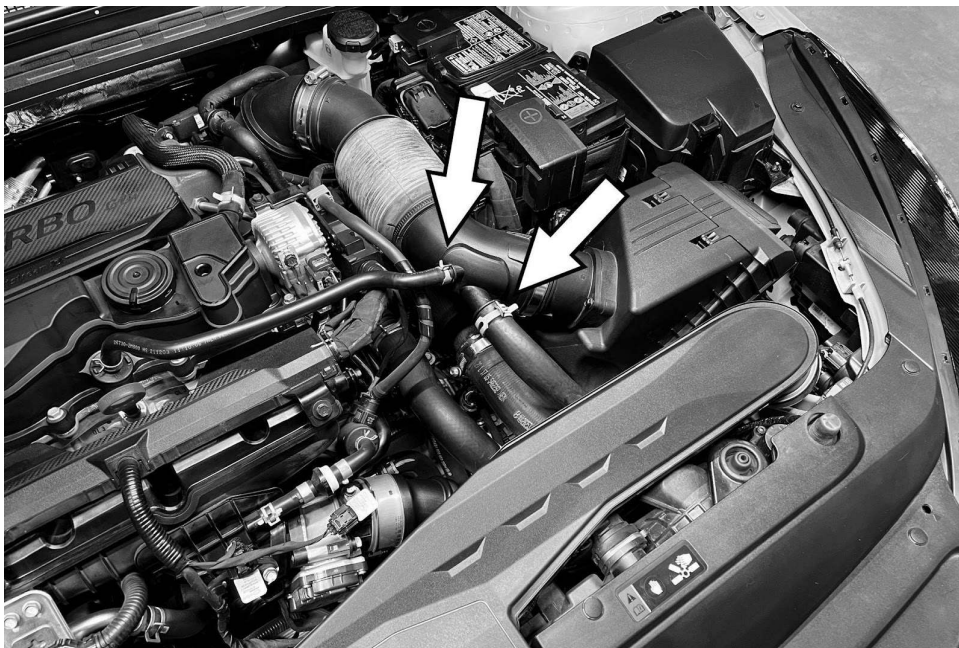
This installation is not for the novice customer. Install this product with **EXTREME** caution! Misuse of this product can destroy your engine! If you are not mechanically inclined, please have a professional automotive mechanic install this kit.

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

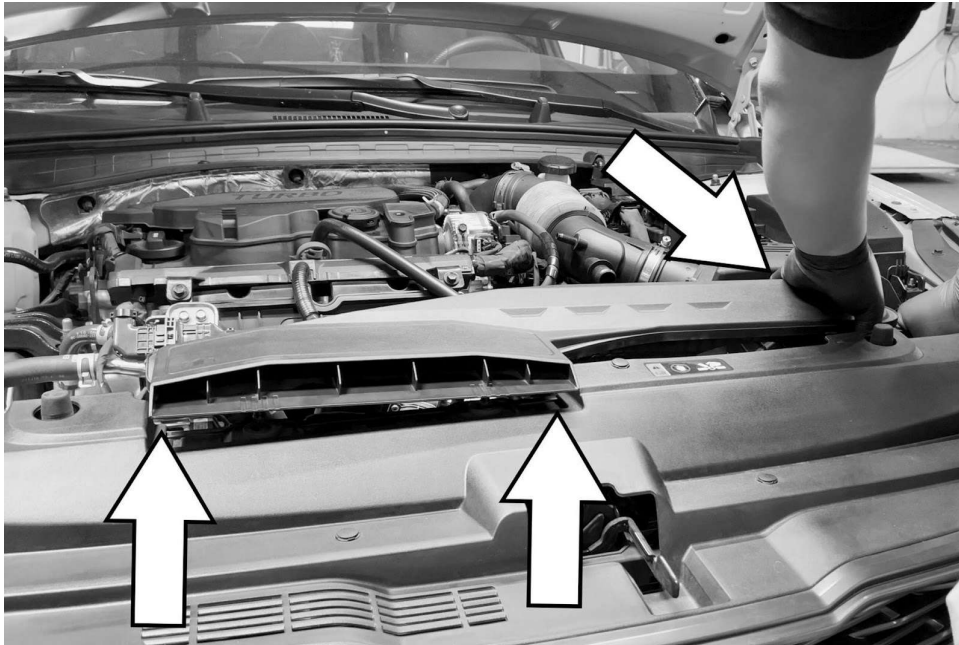
GETTING STARTED

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.

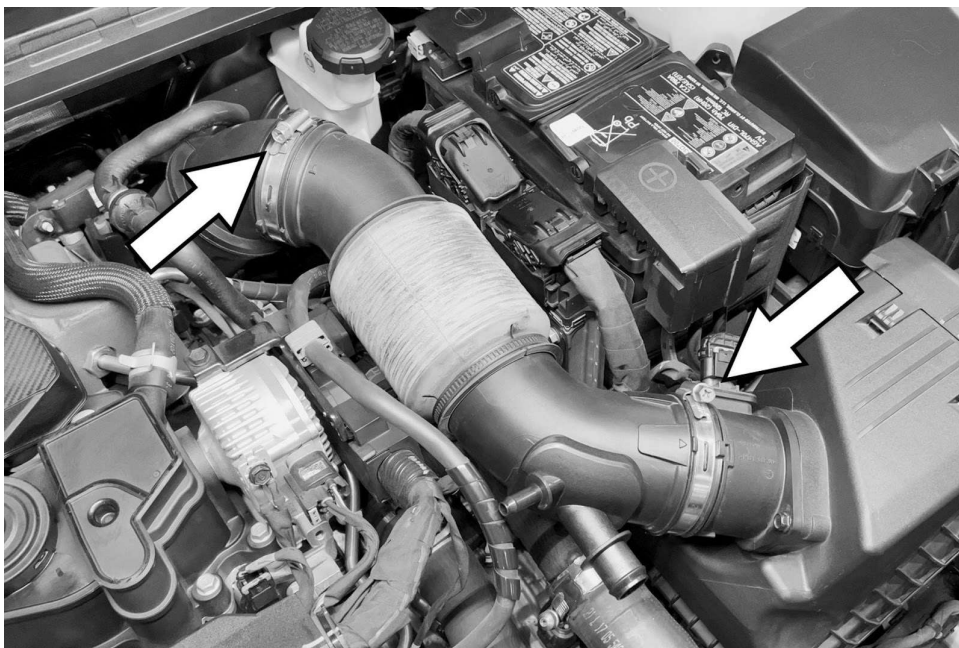
NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied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



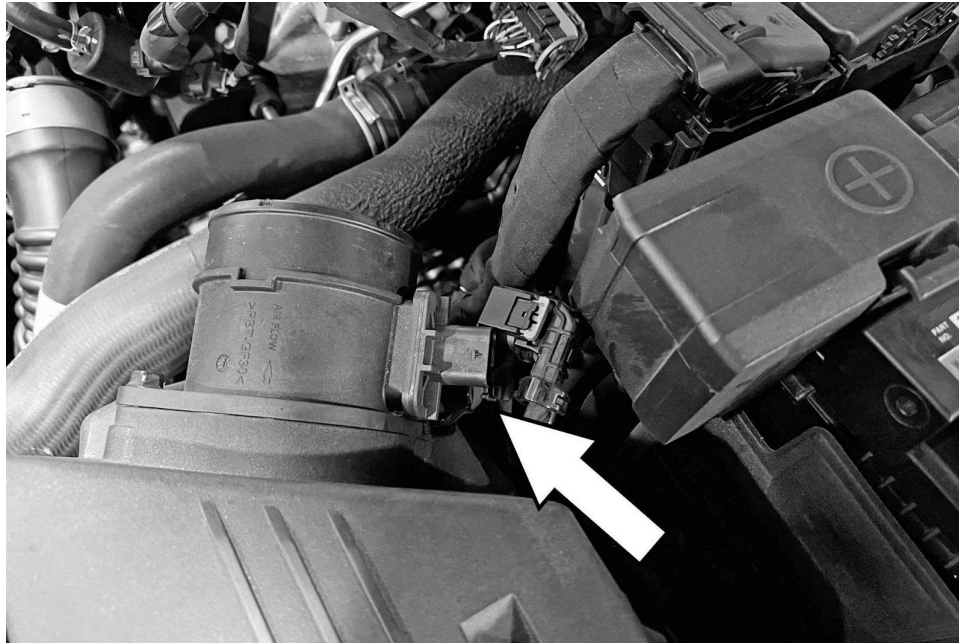
2. Using pliers, loosen the hose clamps to disconnect the breather hose and the blow off valve recirculation hose from the intake tube.



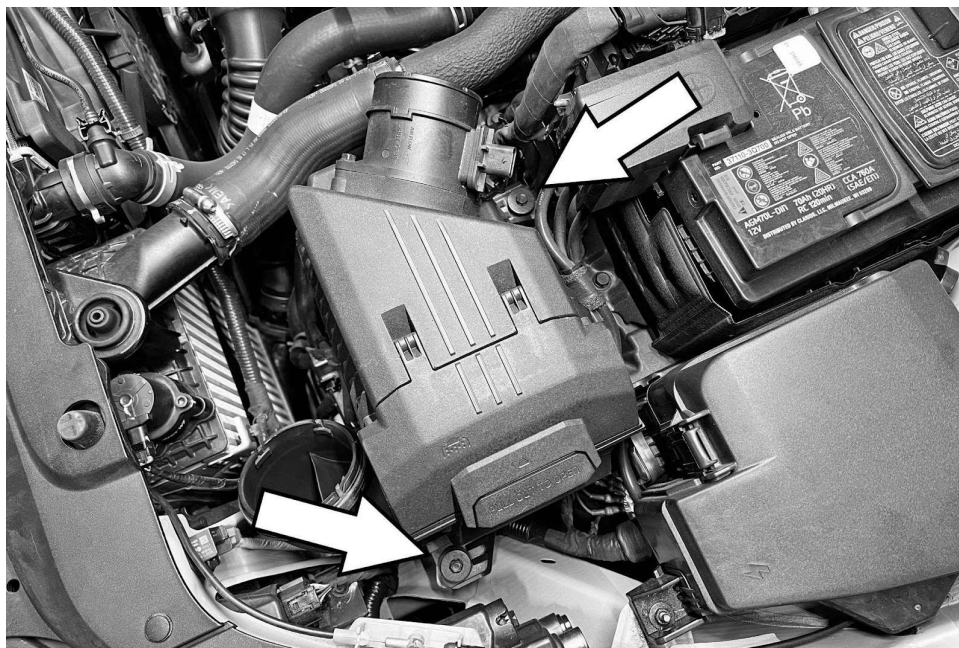
3. Lift the factory air duct from the rubber grommet mounts and disconnect the air duct from the air box assembly. Remove the air duct from the vehicle.



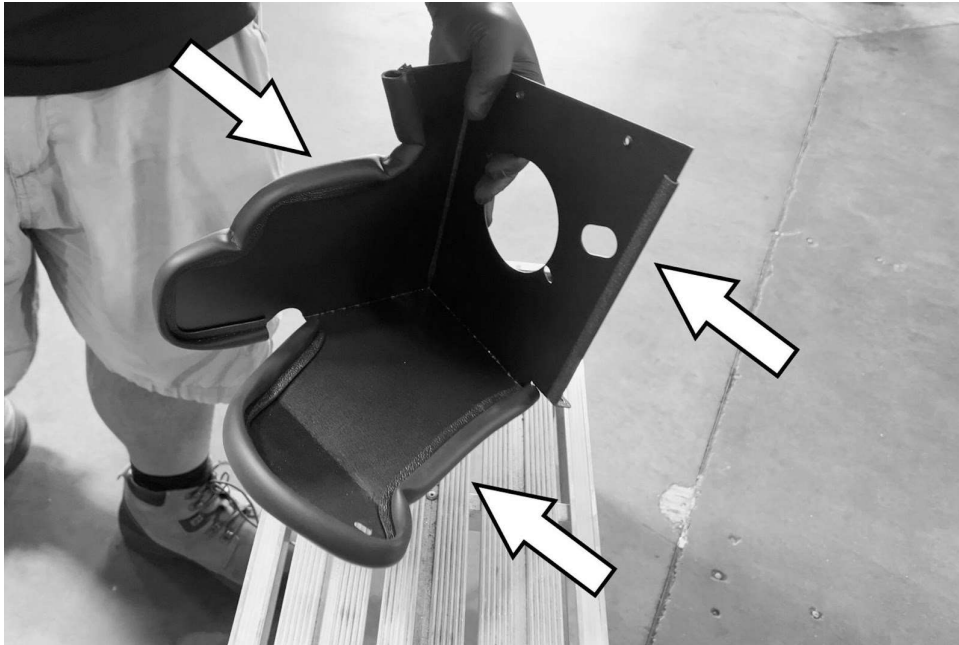
4. Loosen the hose clamps securing the factory air intake tube from the turbo inlet and the air box assembly. Remove the intake tube from the vehicle.



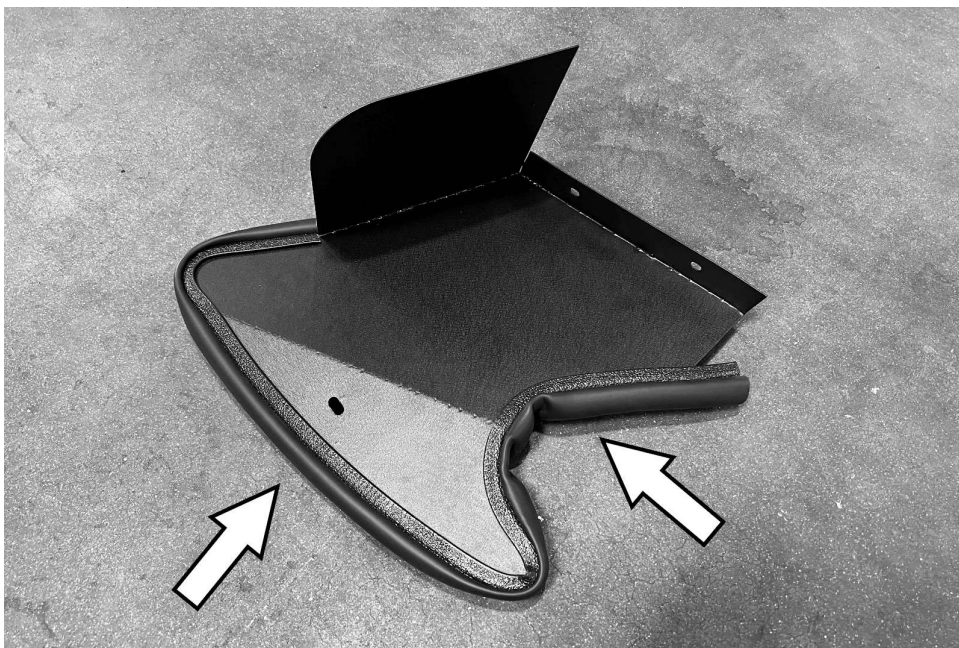
5. Slide the gray locking tab out from the mass air flow sensor harness connector, then squeeze to disconnect it from the MAF sensor.



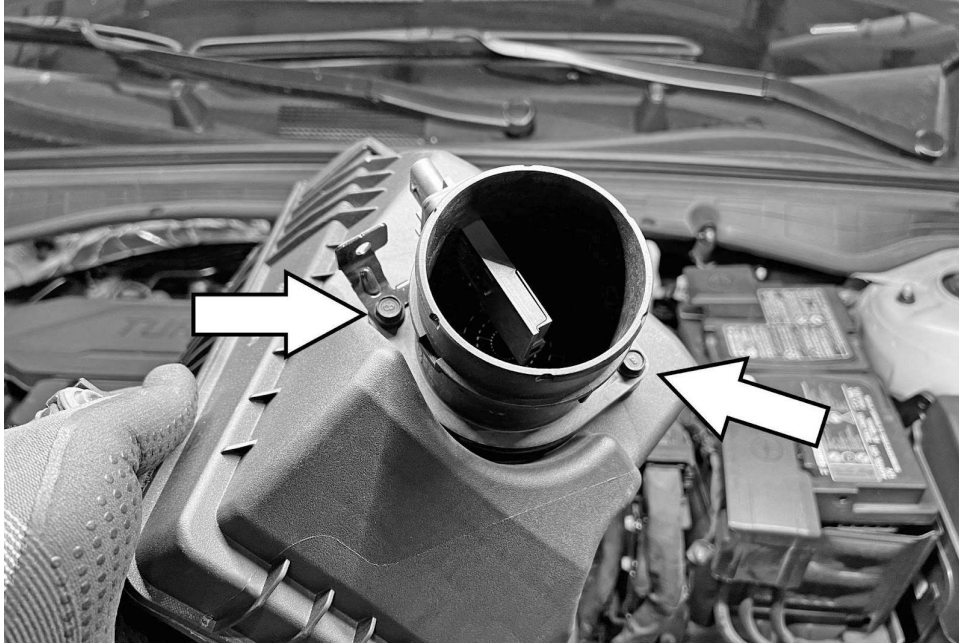
6. Loosen and remove the two 10mm bolts securing the air box assembly. Lift the air box and release it from the mounting grommet and remove it from the vehicle.



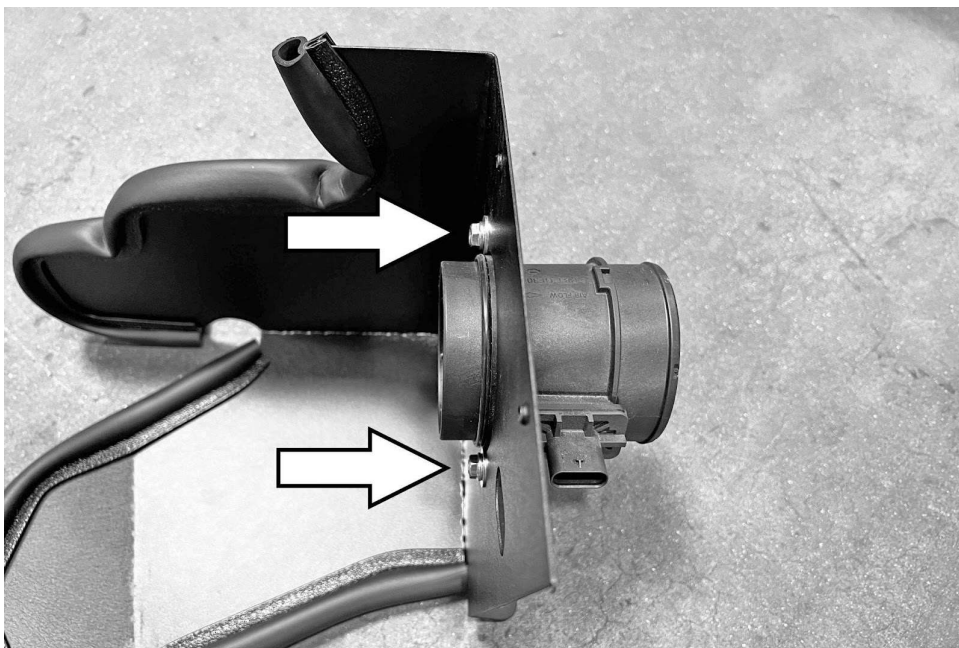
7. Install the bubble & thin edge trim onto the lower HPS heat shield as shown in the image above.



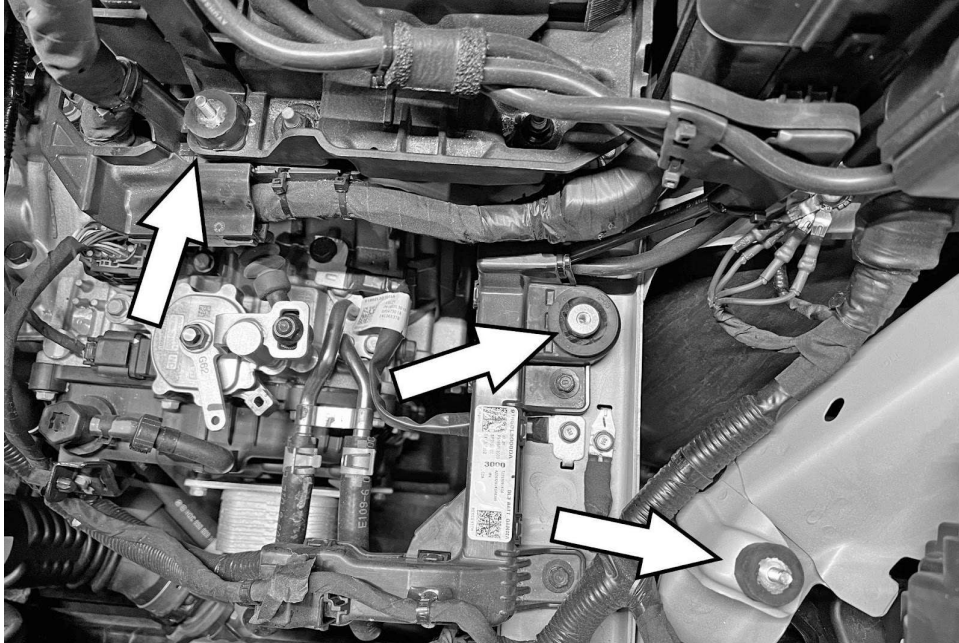
8. Install the bubble edge trim onto the upper heat shield as shown in the image above.



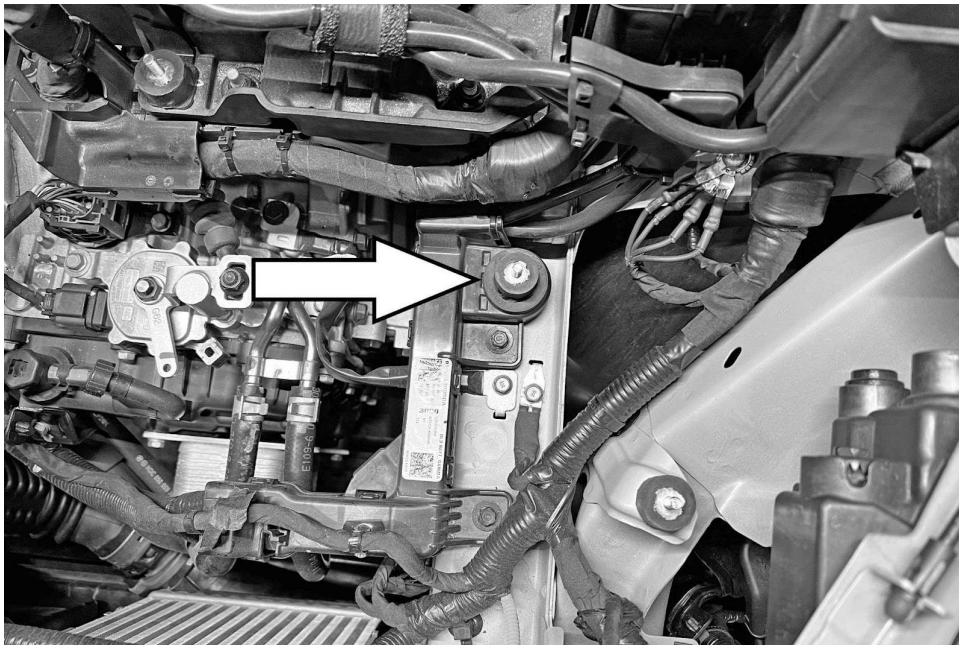
9. Loosen the two 10mm bolts to remove the factory mass air flow sensor housing from the air box assembly.



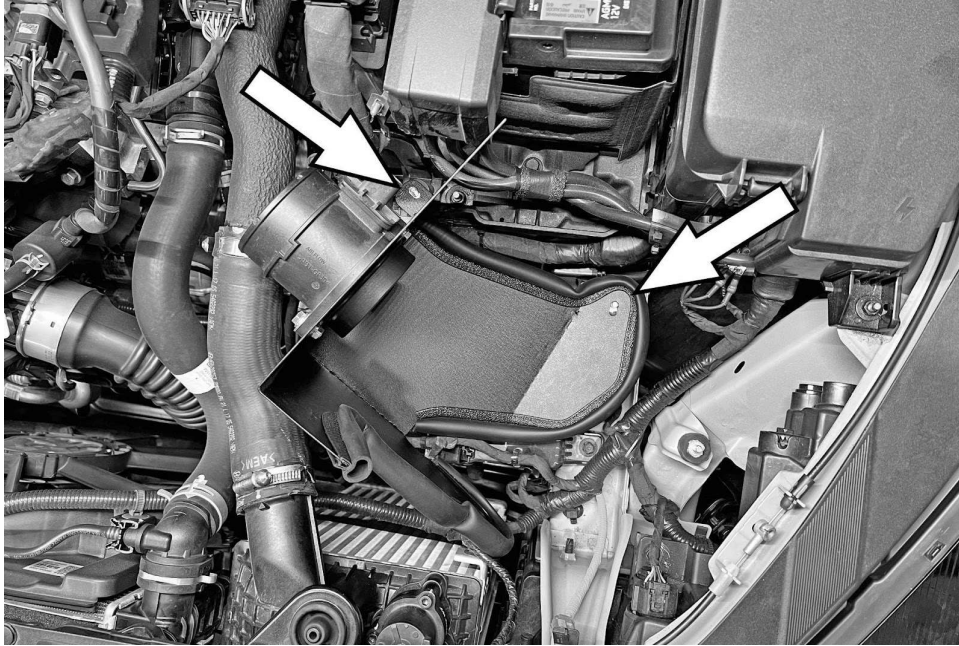
10. Secure the mass air flow sensor housing onto the lower HPS heat shield using the provided M6x16mm bolts (2), nuts (2), and washers (4).



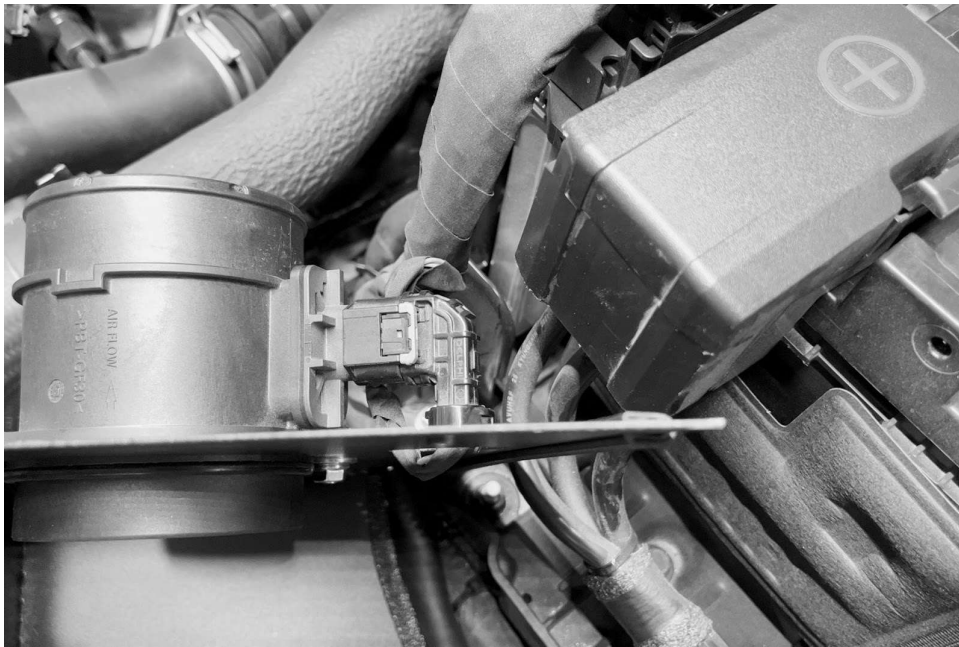
11. Secure the provided 1/2" vibration mounts (2) onto the factory air box mounts. Insert the M6 mounting bung into the factory rubber grommet.



12. Install the provided 1/2" vibration mount onto the M6 mounting bung.



13. Insert and secure the lower HPS heat shield onto the vehicle using the provided nuts (2), and washers (2).



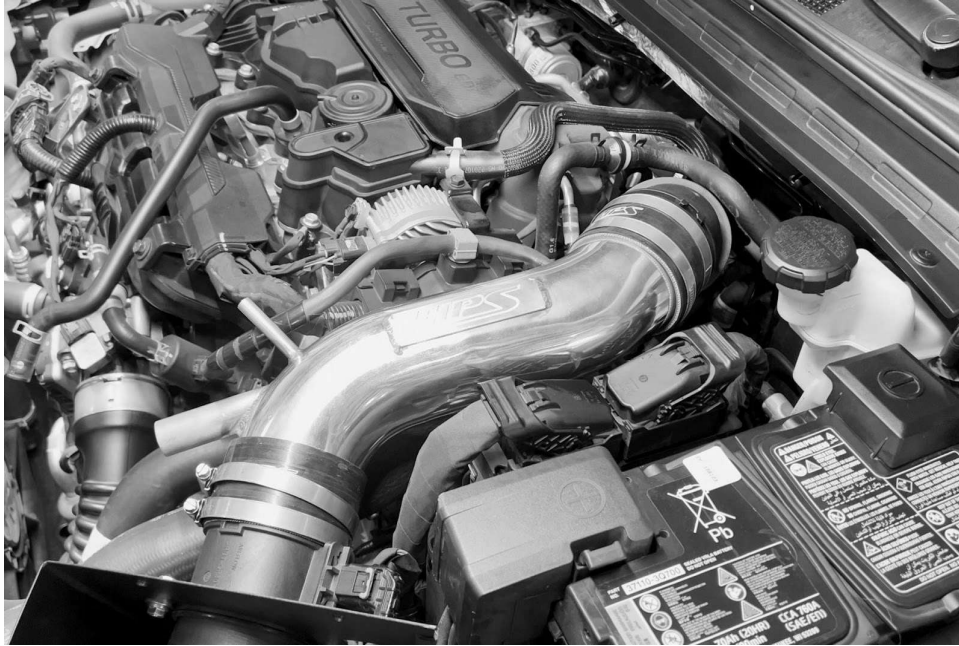
14. Reconnect the mass air flow sensor harness connector onto the MAF sensor.



15. Install the provided mounting rod onto the 1/2" vibration mount.



16. Install the couplers onto the turbo inlet and mass airflow sensor housing using the provided EMSC clamps.



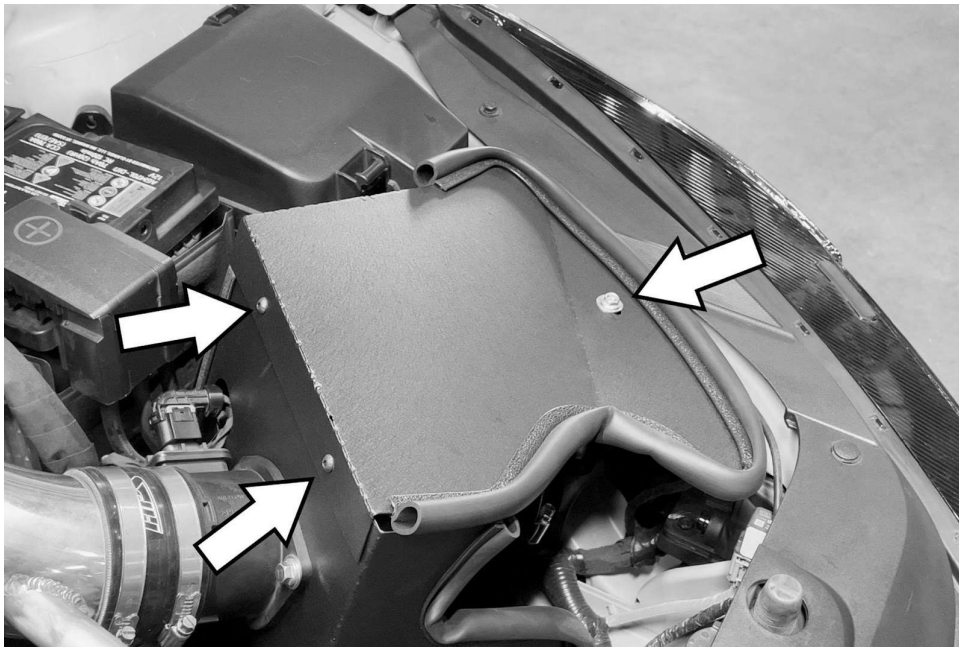
17. Insert and secure the HPS intake pipe into the couplers.



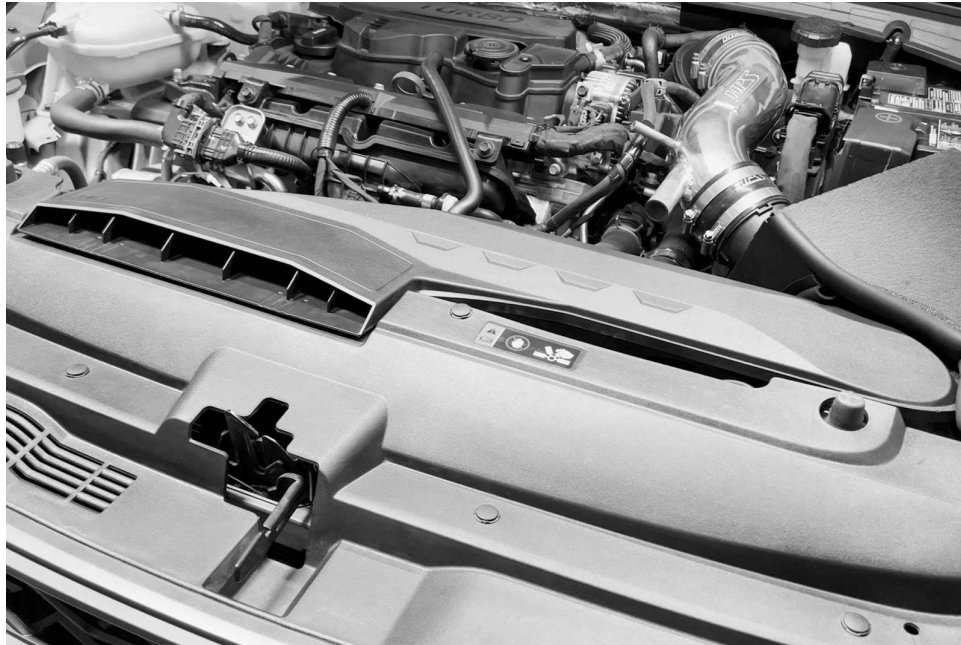
18. Secure the HPS air filter onto the velocity stack. Then, secure the 45 degree coupler using the provided EMSC clamps onto the outlet side of the velocity stack.



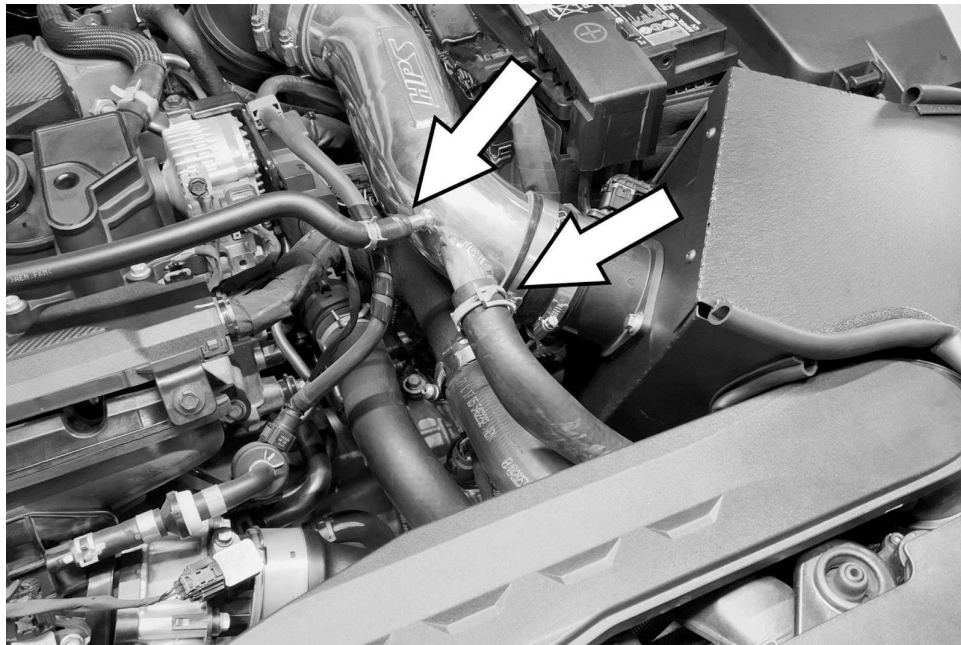
19. Install the air filter with the 45 degree coupler onto the mass air flow sensor housing.



20. Place the upper heat shield onto the bracket and secure it using the provided M6x12mm bolt (1) and washer (1). Secure the upper heat shield to the lower heat shield using the provided M5x12mm bolts (2).



21. Reinstall the factory air duct onto the vehicle.



22. Connect the breather hose and the recirculating hose onto the intake barbs.

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.

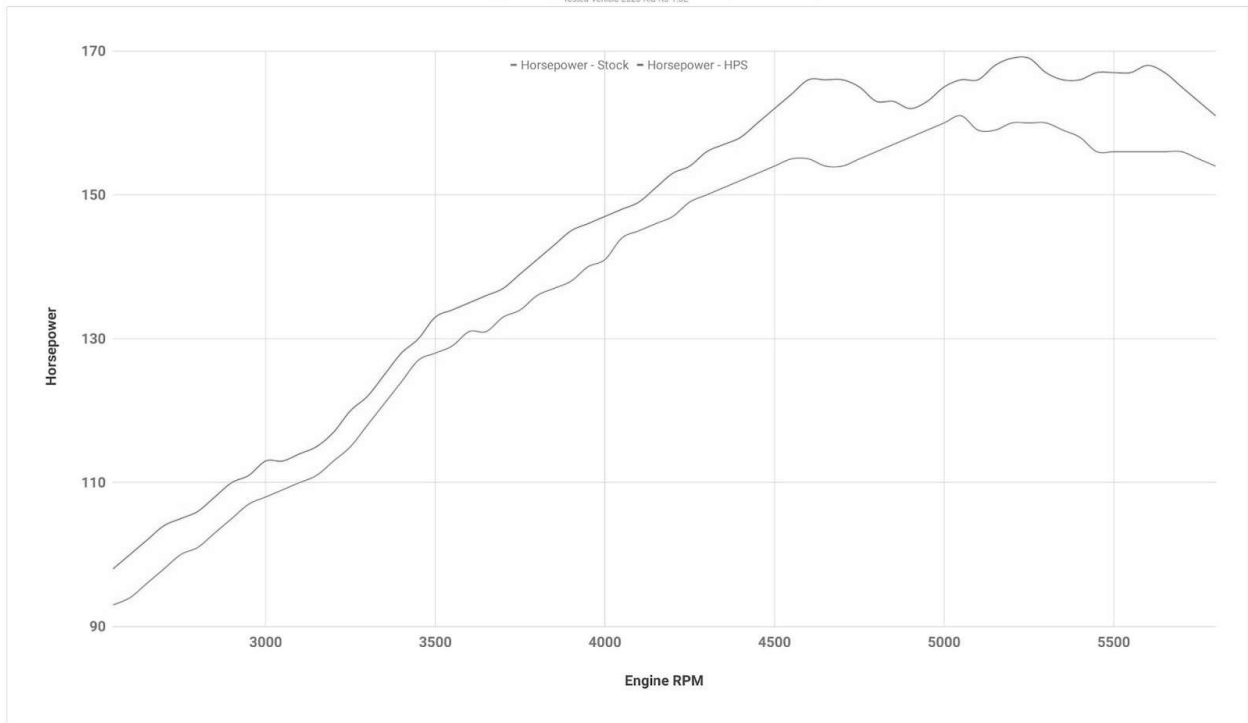
Periodically, recheck the alignment of the intake kit and make sure there is proper clearance around and along the length of the intake. Failure to follow proper maintenance procedures may cause damage to the intake and will void the warranty.



HPS Performance Air Intake Kit with Heat Shield (827 Series)
2020 Kia K5 1.6L
Part Number: 827-712

Maximum Horsepower Gains = 12 whp @ 4650 rpm

Tested Vehicle 2020 Kia K5 1.6L



HPS Performance Air Intake Kit with Heat Shield (827 Series)
2020 Kia K5 1.6L
Part Number: 827-712

Maximum Torque Gains = 15 ft/lb @ 4650 rpm

Tested Vehicle 2020 Kia K5 1.6L

