



Performance Shortram Air Intake Kit

Part Number: 827-570

2002-2006 Nissan Altima 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 Materials

Part Number: 827-570

Description	Prep	Part Number	Qty	Check
HPS Shortram Intake Pipe	1	529-279	1	
HPS Air Filter	2	HPS-4276	1	
Heat Shield	2	HS-404	1	
T-Bolt Clamp for 2.75" Hose	3	SSTC-73-81	1	
T-Bolt Clamp for 3" Hose	3	SSTC-79-87	2	
T-Bolt Clamp for 3 1/8" Hose	3	SSTC-86-94	1	
Worm Gear Clamp for Heat Shield	3	EMSC-80-100	1	
3" to 3 1/8" reducer, 2" long	3	P3SR-300-312-L2	1	
2.75" to 3" reducer, 3" long	3	P3SR-275-300-L3	1	
6mm Bolt 16mm Long	3	HW-B6-16	3	
6mm Bolt 20mm Long	3	HW-B6-20	1	
6mm Flat Washer 16mm OD	3	HW-FW6L	2	
6mm Flange Nut	3	HW-N6	1	
Rubber Vibration Mount 6mm 1" Tall	3	HW-RM6-100	1	
5/8" EPDM hose, 9" Long	3	EPDM-062	1	
Short Ram intake bracket	3	530-280	1	
Nissan 3" MAF adapter	3	ADAP-MAF-NIS	1	
Worm Gear Clamp for 5/8" EPDM hose	3	EMSC-16-27	2	

- 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 system with EXTREME caution! Misuse of this product can destroy your engine! 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 the misuse of this product.

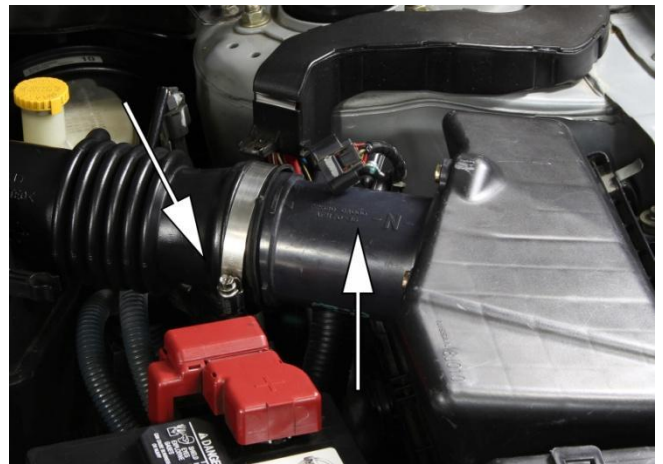
GETTING STARTED

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

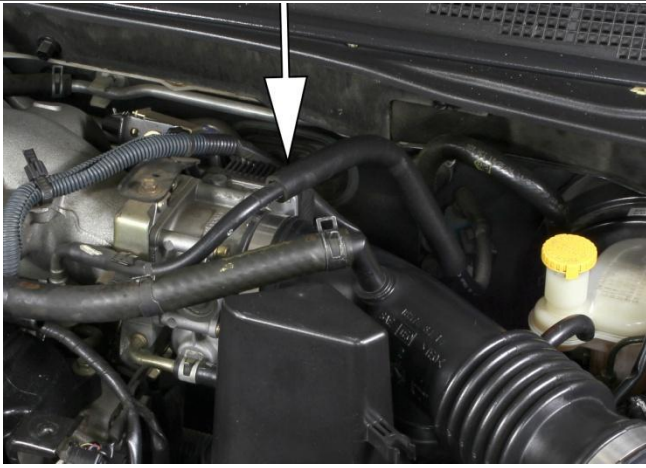
NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is re-connected. The anti-theft code is typically supplied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



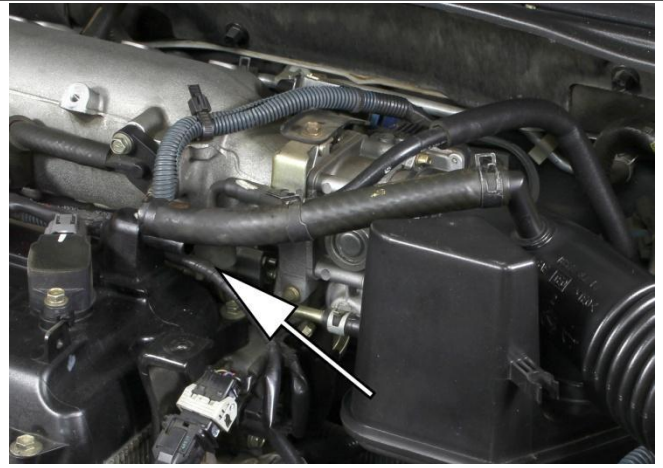
2. Remove the engine cover by removing the 4 bolts indicated in the image above.



3. Unplug the Mass Air Flow (MAF) sensor harness from the MAF sensor. Then, loosen the hose clamp securing the intake tube to the air box.



4. Loosen the hose clamp on the stock intake tube at the throttle body.



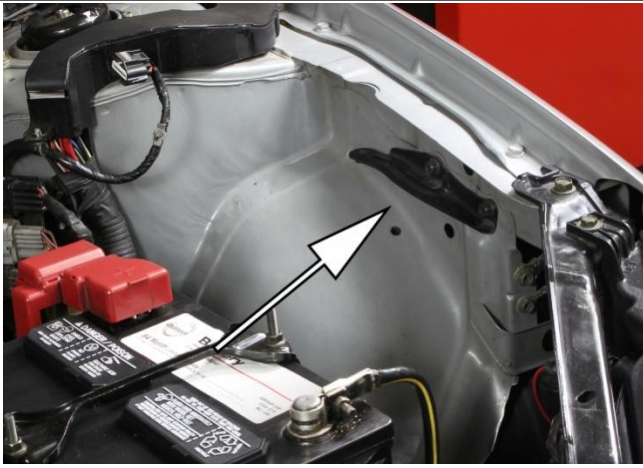
5. Use a pair of pliers to pinch and move the hose clamp back on the breather hose, then pull the hose off of the valve cover.



6. Pull off the intake tube from the throttle body side first, then the air box to remove the tube from the engine bay.



7. Use a 10mm socket to remove the bolt indicated on the air box assembly. Then, pull up on the entire assembly to dislodge it from the rubber grommet underneath, and remove it from the engine bay.



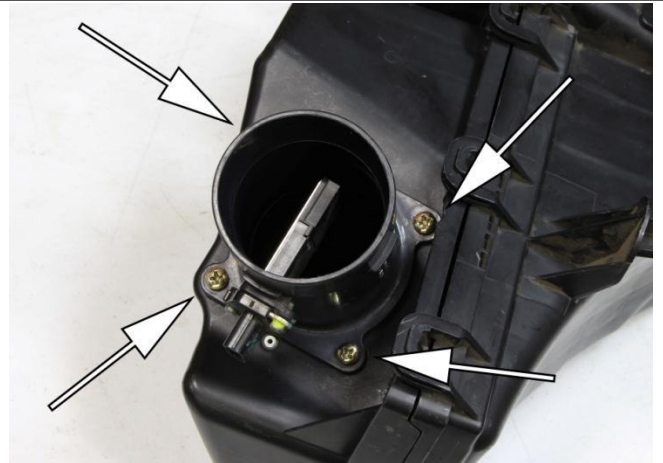
8. Optional but recommended for a cleaner look.
Remove the air box support bracket, which is secured by two 10mm bolts.



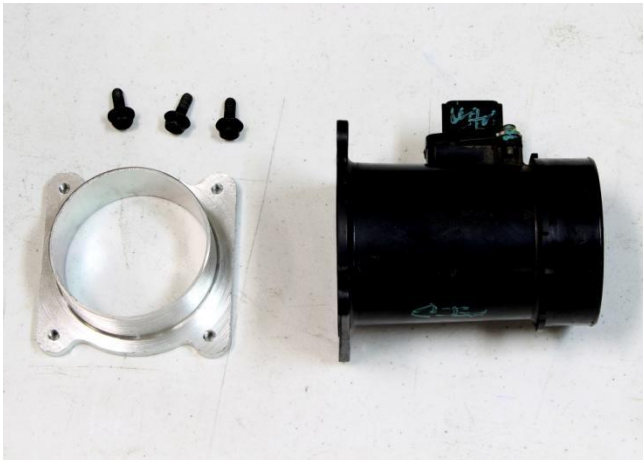
9. Press the 2.75" to 3" silicone reducer onto the throttle body, along with the correct T-bolt clamps. Only tighten the clamp on the throttle body for now.



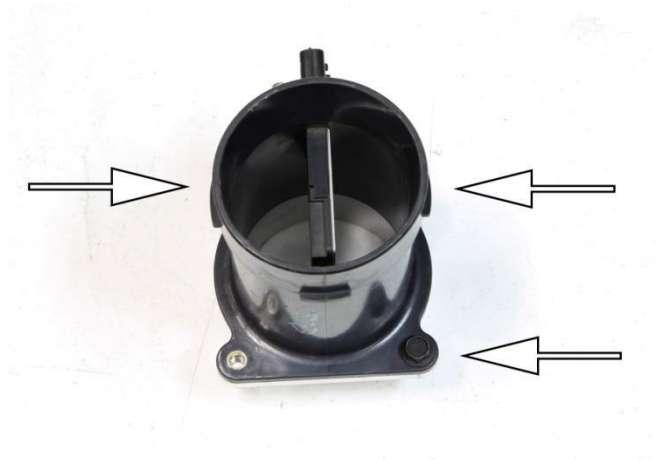
10. Press the HPS intake pipe into the reducer, but do not tighten the clamp, as the pipe may need to be adjusted later on.



11. Use a Phillips-head (cross) screwdriver to remove the 4 screws indicated, and remove the MAF housing from the stock air box.



12. Prepare the MAF housing for installation by using the MAF adapter, and the 3 m6, 16mm long bolts provided in the hardware kit.



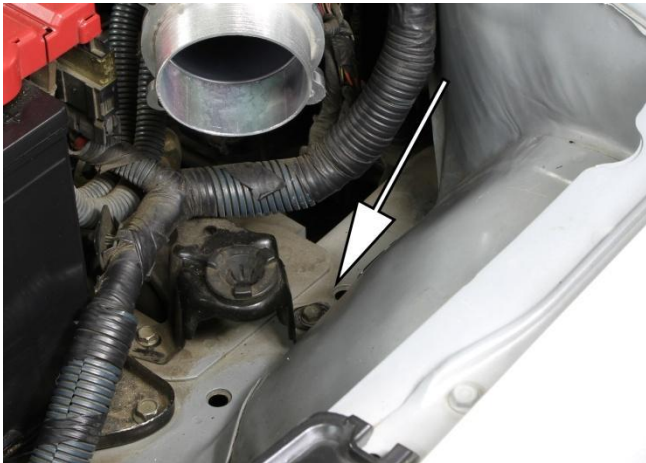
13. Install the bolts as shown in the image above, the open bolt hole will be used to mount the bracket.



14. Press the remaining reducer onto the HPS intake pipe along with the provided T-bolt clamps.



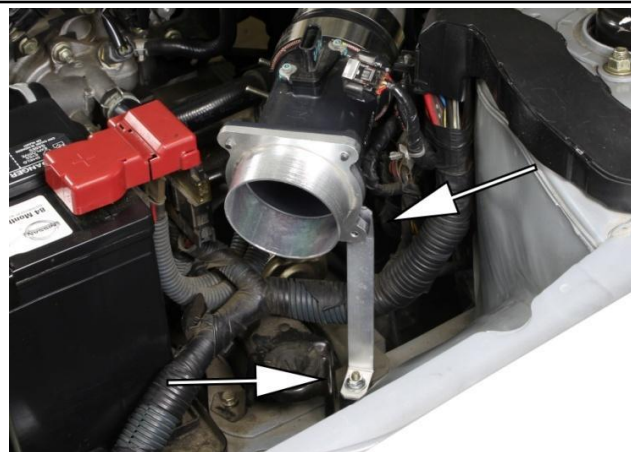
15. Press the MAF housing assembly into the reducer but do not tighten the T-bolt clamps yet.



16. Remove the bolt indicated in the image, next to the grommet for the stock air box.



17. Install the provided vibration mount into the bolt hole from step 16.



18. Use the m6 20mm long bolt along with a washer to mount the bracket onto the MAF housing. Use a m6 nut and washer to secure the bracket onto the rubber mount.



19. Reconnect the MAF sensor harness to the MAF sensor.



20. Connect the EPDM hose provided for you to the HPS intake pipe and the valve cover breather port. Secure the hose with the provided GSC clamps.



21. Install the heat shield and HPS air filter onto the intake assembly. Be sure to tighten all of the T-bolt clamps after the assembly has been adjusted.

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, and let the car idle for about 3 minutes. Perform a final inspection before driving. Listen carefully for any odd noises, rattles, 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.

