



# Performance Shortram Air Intake Kit

## Part Number: 827-611

**2004 - 2011 Ford Ranger 4.0L V6**  
**2004 - 2009 Mazda B4000 4.0L V6**

## Installation Instructions

For technical inquiries please email us at [tech@hpsperformanceproducts.com](mailto: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: 827-611

Description	Prep	Part Number	Qty	Check
Upper Air Intake Pipe	1	529-369	1	
Heat-Shield	2	531-370	1	
HPS Air Filter	3	HPS-4303	1	
T-Bolt Clamp for Throttle Body	4	SSTC-89-97	1	
T-Bolt Clamp for 3.50"	4	SSTC-95-103	1	
T-Bolt Clamp for 3.00"	4	SSTC-79-87	1	
T-Bolt Clamp for 2.75"	4	SSTC-76-84	1	
3.00" - 3.50" 45° Degree Reducer Coupler	4	CH4600	1	
2.75' - 3.50" Reducer Coupler x 3.00" Long	4	P3SR-275-350	1	
Velocity Stack 3.5" to 6" inlet	4	HW-VS-350-600	1	
6mm Bolt x 12mm long	4	HW-B6-12	4	
6mm Flat Washer x 16mm OD	4	HW-FW6L	4	
M4 bolts	4	HW-B4-8	2	
5/8" EPDM hose, 23" Long	4	EPDM-062	1	
Hose Clamp for 5/8" hose	4	EMSC-16-27	2	
Bulb Edge Trim, 33" inches Length	4	BUBBLE EDGE TRIM	1	
Heat-shield Rubber Grommet Insert	4	HSM-M6-1028	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](mailto: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](mailto:tech@hpsperformanceproducts.com)

## **PLEASE READ CAREFULLY BEFORE INSTALLATION!**

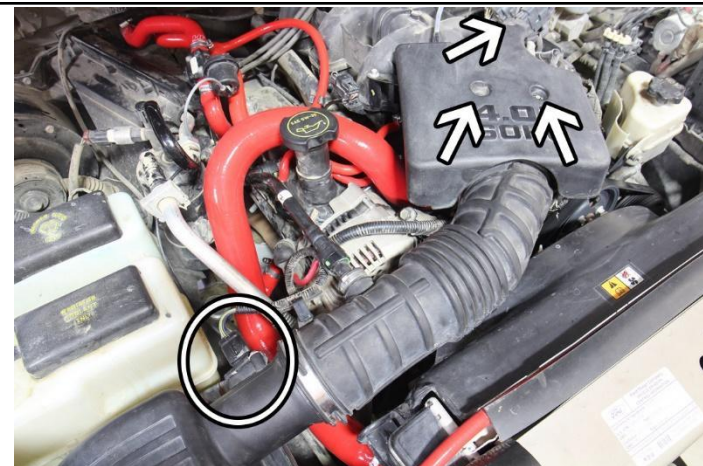
This installation is not for the novice customer. Install this system with EXTREME caution! Misuse of this product can destroy your engine! If you are not well versed in the installation of intakes and if you are not mechanically inclined, please have a tuner shop install this kit.

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

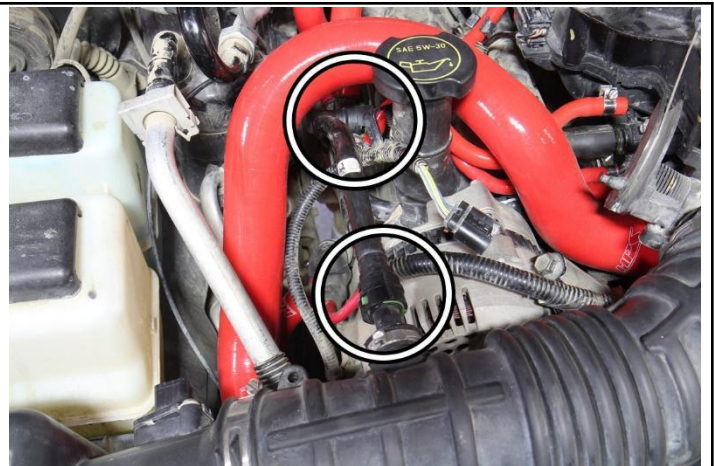
## **GETTING STARTED**

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.



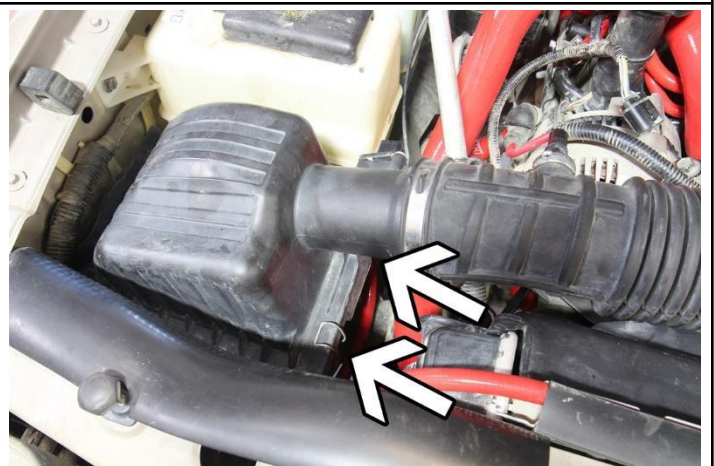
2. Remove the three bolts securing the plastic cover covering the throttle body. Then release the Mass Air Flow sensor harness connector from the MAF sensor.



3. Press on the green tabs to release the breather hose from the intake tube and from the crank case.



4. Loosen the clamp securing the throttle body.



5. Release the two clamps securing the top lid portion of the air box from the lower part of the air box, then remove the top lid and the stock intake tube from the vehicle.



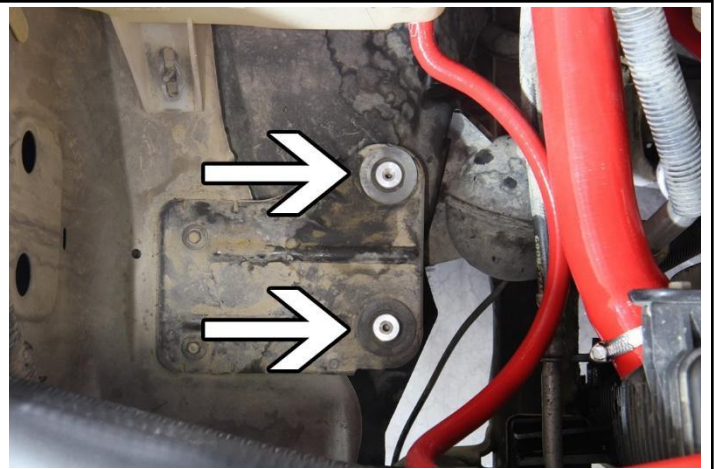
6. Firmly lift and remove the remaining lower part of the air box assembly from the vehicle.



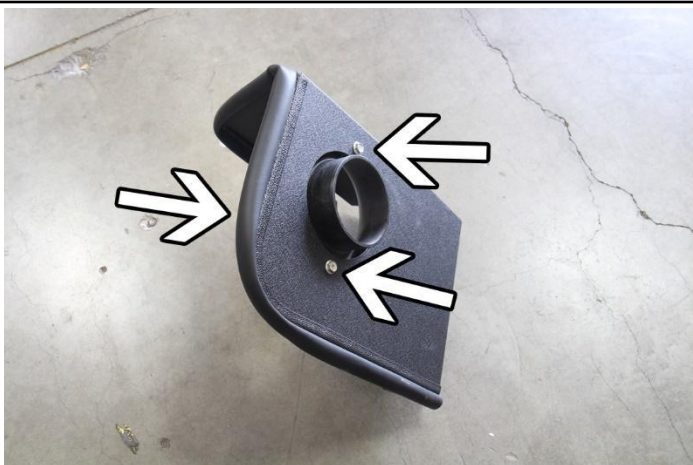
7. Firmly pull and remove the factory air duct from the core support.



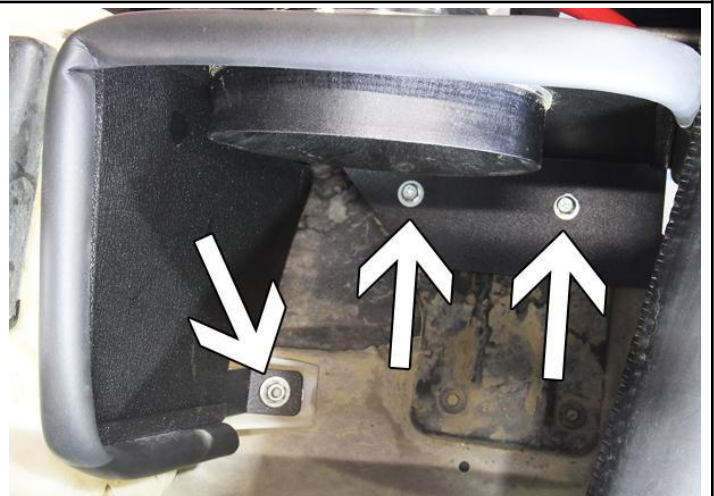
8. Remove the 11mm nut securing the coolant reservoir mounting tab.



9. Using the factory air box mounting grommets, insert the two threaded mounting bungs provided in the hardware kit into the rubber grommets.



10. Install the provided edge trim onto the heat-shield. Insert and secure the velocity stack onto the heat-shield using the two 6mm bolt and washers.



11. Insert the heat-shield into the vehicle and secure the heat-shield using the stock nut for the heat-shield tab and the two 6mm bolt and washers into the threaded mounting bungs.



12. Remove the stock Mass air flow sensor and install the sensor into the HPS intake. Secure the MAF sensor using the 4mm Allen bolts provided in the hardware kit.



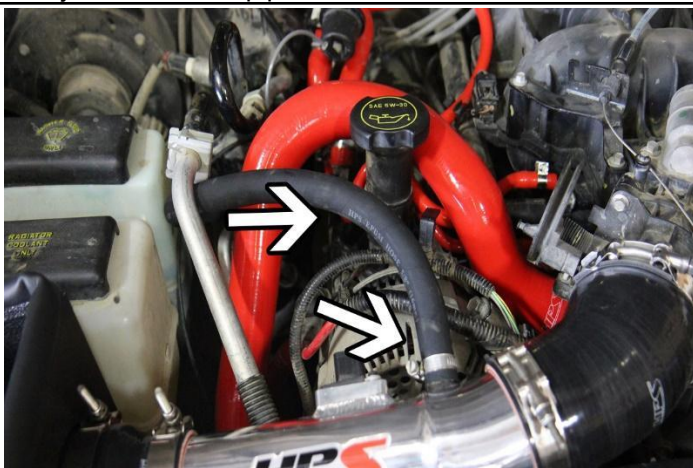
13. Install the reducer coupler onto the smaller side of the intake and secure it using the provided t-bolt clamps. \*Make sure when inserting the coupler that the pipe is flush before the reducing part of the coupler.



14. Install the 45-degree reducing coupler onto the throttle body along with the provided t-bolt clamps. Do not tighten any of the clamps yet because the coupler will need to be re-adjusted after the pipe is installed.



15. Install the intake pipe onto the velocity stack first, then into the throttle body coupler. Adjust the intake pipe and the throttle body coupler to the proper position, then tighten the t-bolt clamps.



16. Install the provided EPDM hose into the intake pipe and into the crankcase. Secure the hose using the provided hose clamps.



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



18. Re-connect the MAF sensor connector harness.



19. Re-install and secure the plastic cover.

### 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 Kit (Black/Blue/Red) with Stainless Steel Clamps  
is now available for 2004-2011 Ford Ranger V6 4.0L**

**Part Number: 57-1661**



**Contact our authorized dealers for the best pricing**

**or**

**Visit our website at [www.hpsperformanceproducts.com](http://www.hpsperformanceproducts.com) for more details**