



## **Performance Air Intake Kit Part Number: 827-516**

**2007-2010 Scion TC 2.4L 2AZ-FE**

## **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: 827-516

Description	Prep	Part Number	Qty	Check
Intake Pipe	1	529-613	1	
Heat shield	2	531-97	1	
HPS Performance Air Filter	3	HPS-4274	1	
Short Ram Intake Bracket	4	530-91	1	
Sensor bracket	4	530-92	1	
Heat Shield Bracket	4	530-98	1	
2.5" to 3" Silicone Reducer Coupler, 3" Long	5	P3SR-250-300-L3	1	
T-Bolt Clamps for 2.50"	5	SSTC-67-75	1	
T-Bolt Clamps 3.00"	5	SSTC-79-87	1	
6mm Vibration Mount x 1" Tall	5	HW-RM6-100	1	
4mm Allen Bolts x 8mm long	5	HW-B4-8	2	
6mm Flat Washer x 16mm OD	5	HW-FW6L	5	
6mm Flange Nut	5	HW-N6	1	
6mm Bolt x 12mm long	5	HW-B6-12	4	

- 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 email us at [tech@hpsperformanceproducts.com](mailto: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.

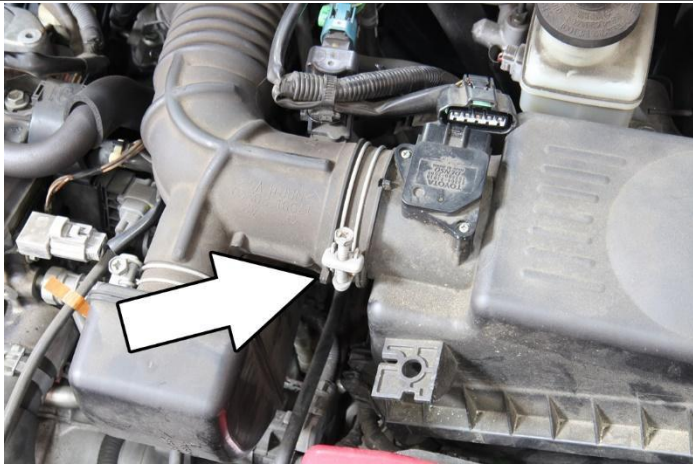
NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied with your owner's manual. In the event your vehicles' anti-theft code cannot be recovered, contact an authorized dealership to obtain your 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 cover from the vehicle.



3. Disconnect the mass air flow sensor harness connector from the sensor.



4. Using a 10mm socket, loosen the hose clamp securing the intake tube from the air box assembly.



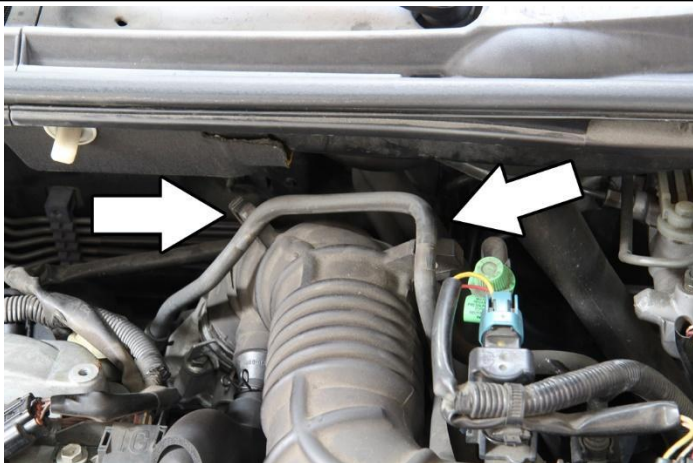
5. Remove the upper air box lid and the air filter from the vehicle.



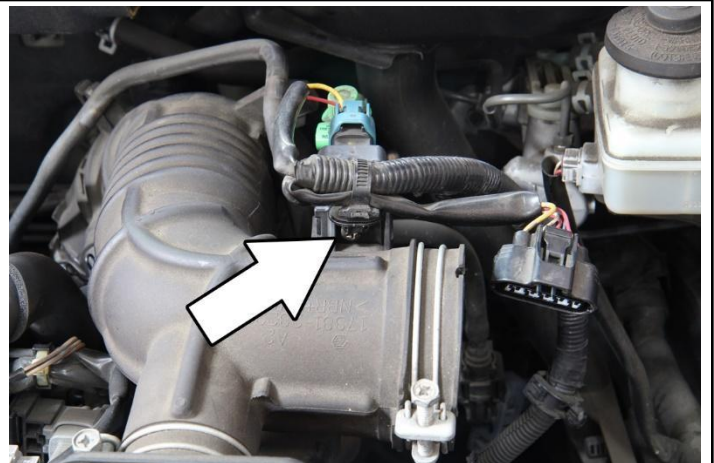
6. Remove the three 10mm bolts securing the lower air box assembly.



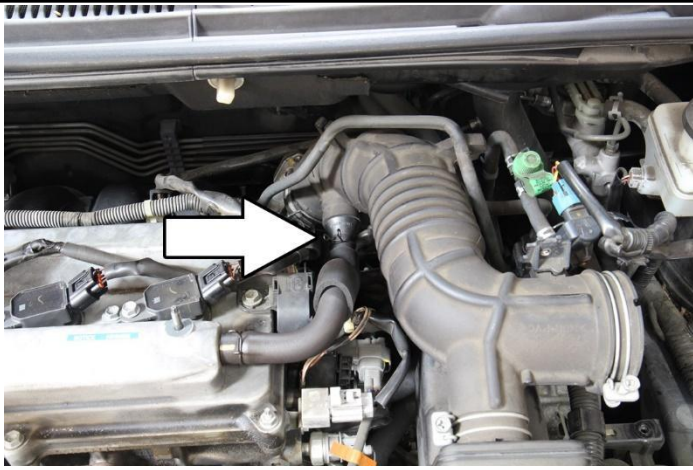
10. Unclip the MAF harness from the lower air box and remove the lower air box from the vehicle. Use a pick or a small flat screwdriver to release the clip.



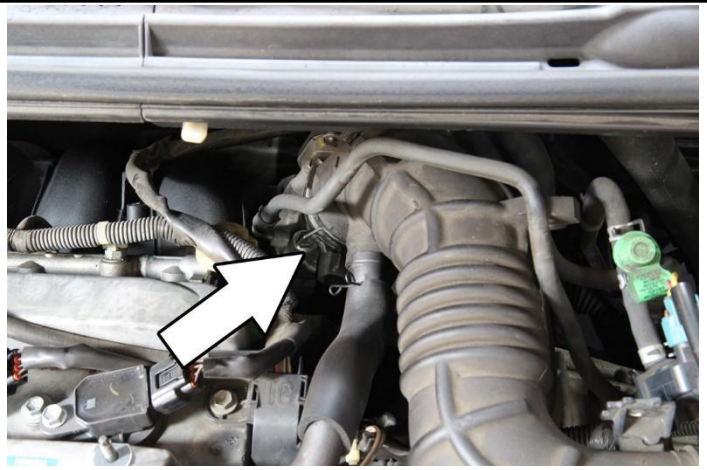
11. Disconnect the evaporative hose from the stock intake tube.



12. Remove the Evaporative sensor from the intake tube using a Phillips head screwdriver.



13. Disconnect the breather hose from the intake tube.



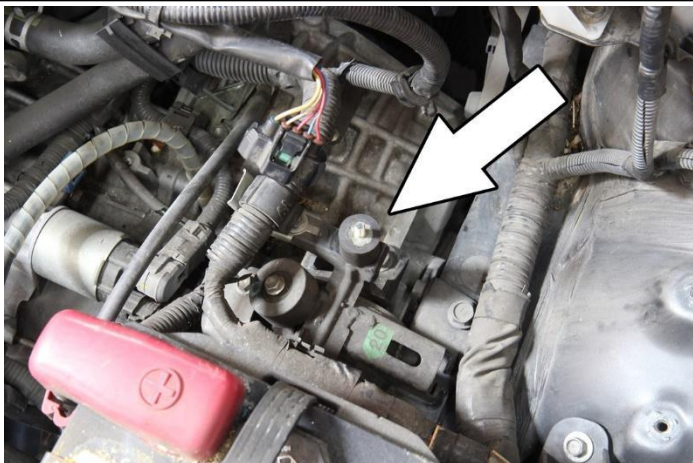
14. Loosen the spring clamp securing the intake tube from the throttle body using a pair of pliers.



15. Remove the intake tube from the vehicle.



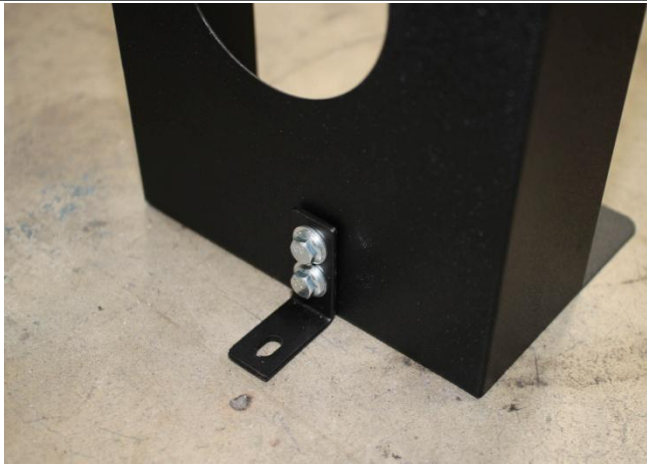
16. Install the reducer coupler along with the provided T-bolt clamps onto the throttle body.



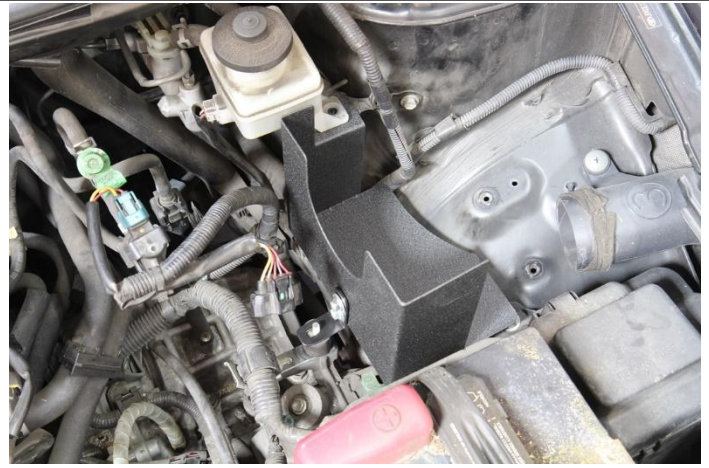
17. Install the provided 1" inch vibration onto the lower air box mounting bracket.



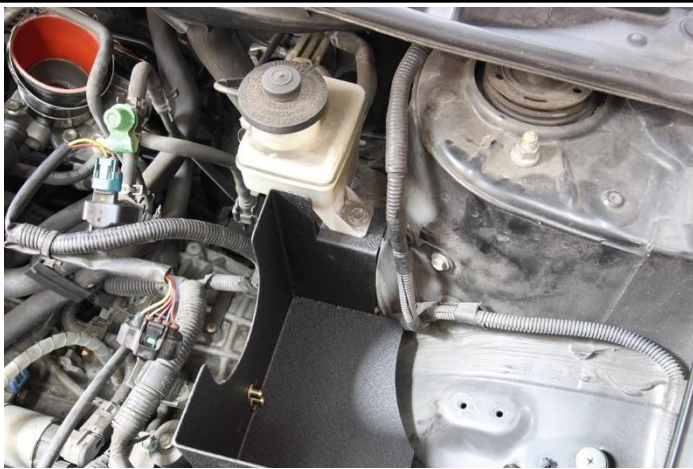
18. Loosen and remove the bolt from the brake fluid reservoir.



19. Install the heat shield bracket onto the heat shield using the two M6 bolts and washers included in the hardware kit.



20. Slide the heat shield underneath the brake fluid reservoir and onto the vibration mount.



21. Reinstall the factory bolt securing the brake fluid reservoir.



22. Loosely install the short ram intake bracket on top of the heat shield bracket using a washer and nut supplied in your hardware kit.



23. Install and secure the sensor bracket onto the intake using a washer and M6 bolt.



24. Remove the MAF sensor from the factory air box and install the MAF sensor onto the intake pipe using the provided Allen bolts.



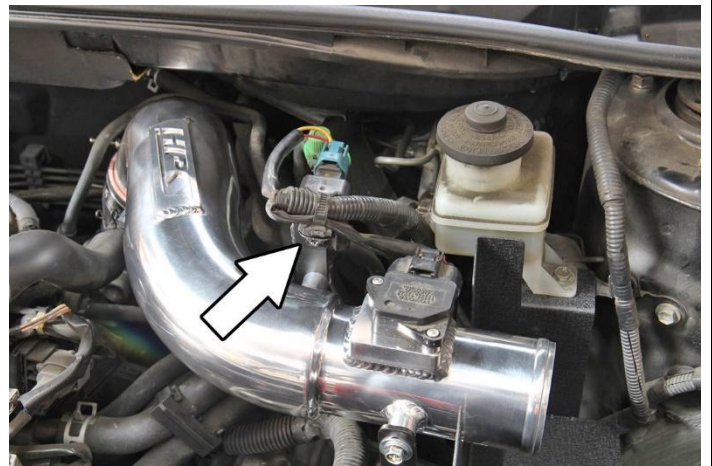
25. Insert the intake pipe into the coupler and secure the intake pipe onto the intake bracket. Once the intake pipe is in its proper position, you can tighten the T-bolt clamp securing the pipe to the coupler.



26. Reinstall the breather hose onto the intake pipe.



27. Reuse the factory screw to reinstall the EVAP sensor onto the sensor bracket along with the factory harness bracket.



28. Clip the MAF sensor harness clip back onto the bracket.



29. Install the provided HPS performance air filter.



30. Reinstall the engine cover back onto the 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. 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.

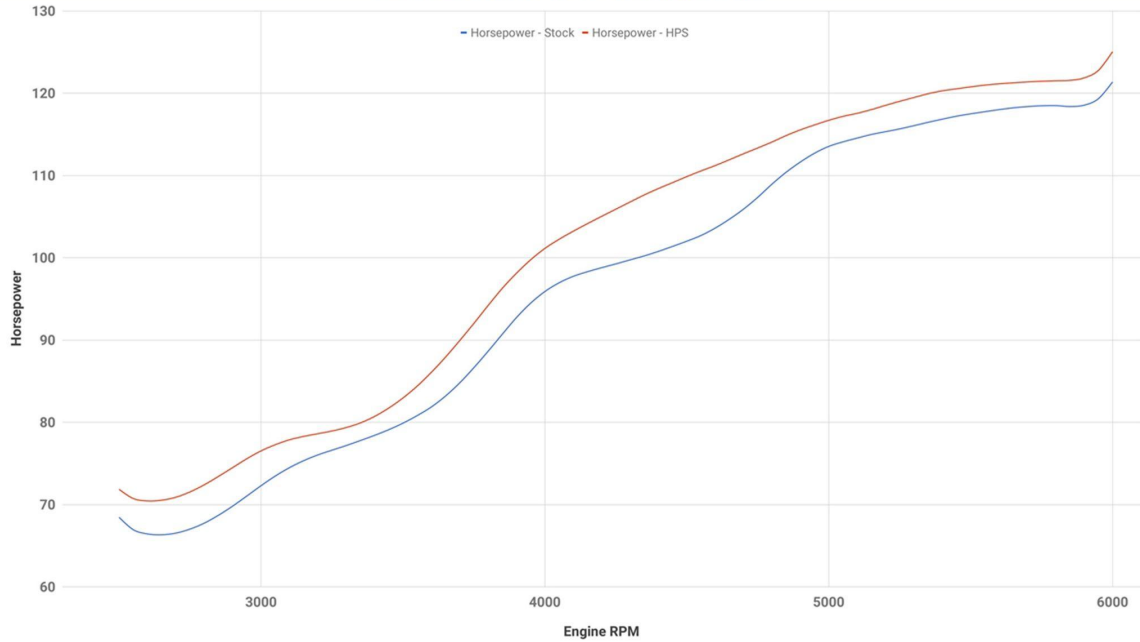
Periodically, recheck the alignment of the intake system and make sure there is proper clearance around and along the length of the intake. Failure to follow proper maintenance procedures may cause damage to the intake and will void the warranty.





**HPS Performance Air Intake Kit with Heat Shield (827 Series)**  
**2005-2006 Scion tC 2.4L (Part # 827-515), 2007-2010 Scion tC 2.4L (Part # 827-516)**

**Maximum Horsepower Gains = 7.9 whp @ 4500 rpm**



**HPS Performance Air Intake Kit with Heat Shield (827 Series)**  
**2005-2006 Scion tC 2.4L (Part # 827-515), 2007-2010 Scion tC 2.4L (Part # 827-516)**

**Maximum Torque Gains = 9.2 ft/lb @ 4400 rpm**

