



Performance Shortram Air Intake Kit Part Number: 827-514

**1989-1995 Toyota Pickup 22R-E 2.4L
1989-1995 Toyota 4runner 22R-E 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

Part Number: 827-514

Description	Prep	Part Number	Qty	Check
Intake pipe	1	529-82	1	
HPS Filter	2	HPS-4276	1	
T-Bolt Clamp for 2 3/4" Hose	3	SSTC-73-81	4	
2 3/4" 45 Degree Elbow Coupler	3	68413	1	
2 3/4" Hump Coupler x 2 1/2" Long	3	P3SHC-275-L25	1	
MAF Adapter	3	MAF-004	1	
Intake Bracket	3	530-81	1	
6mm Large OD Washer	3	HW-FW6L	1	
6mm Flange Bolt x 16mm Long	3	HW-B6-16	1	
6mm Flange Nut	3	HW-N6	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.
- Report any defective or missing parts to HPS directly. The HPS dealer you purchased this product from might not have the replacement parts you need.
- 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.

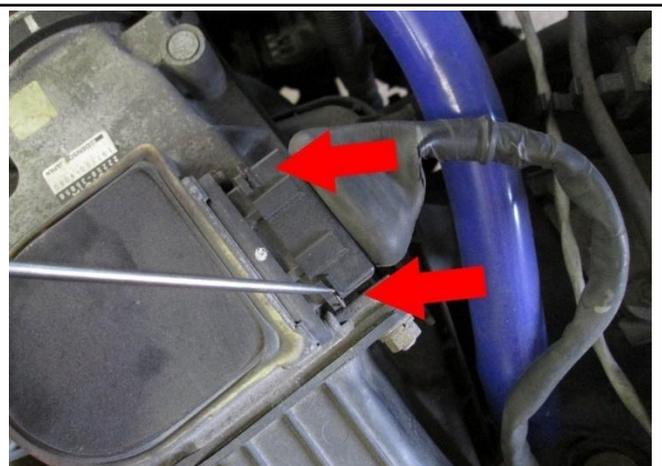
GETTING STARTED

1. Turn the ignition OFF and disconnect the vehicle's negative battery cable. If 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. Unscrew the hose clamp on the throttle body. Disconnect the hose from the air chamber indicated by the arrow. The air chamber will remain open to vent, do not cover the vent.



3. Use a pick to remove the spring clip on the air flow meter (AFM) connector, then remove the connector from the meter.



4. Disconnect the hose indicated by the arrow. Unscrew the hose clamp and remove the air inlet tube from the AFM.



5. Unbolt the 3 bolts to remove the airbox from the engine bay.



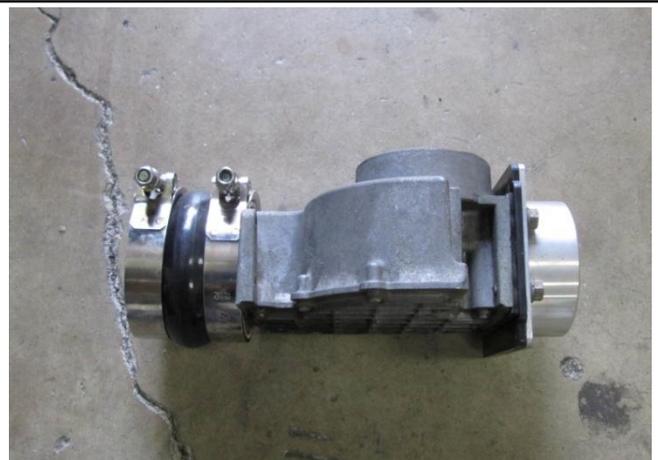
6. Take off the 2 screws (top 2 arrows) and 1 bolt (bottom arrow) to remove the bracket from the AFM



7. Remove the 4 nuts holding the AFM to the air box.



8. Install the new adapter, retaining the factory gasket, and securing using the four new 6mm flange nuts included in the hardware kit.



9. Install the hump coupler onto the AFM using the remaining T-bolt clamps.



10. Install the bracket on the top mounting point of the radiator using the factory bolt.



11. Install the 45 degree coupler onto the throttle body along with the T-bolt clamps.



12. Install the HPS intake pipe onto the 45 degree coupler.



13. Install the HPS air filter and HPS intake pipe onto the AFM. Install the bracket onto the lower hole on the AFM using the provided 6mm bolt and washer.

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 Silicone Radiator + Heater Hose Kit (Black/Blue/Red) with Stainless Steel Clamps
is now available for your 1989-1995 Toyota Pickup 22R-E 2.4L 4cyl!**



Part Number: 57-1478 - MSRP: \$235.00

**Contact an authorized HPS Performance Products dealer or visit us at
www.hpsperformanceproducts.com for more details**