



**Installation Instructions**  
**Part Number 510-628**  
**Poweraid Spacer For**  
**2010-2014 Toyota FJ Cruiser**  
**2010-2019 Toyota 4Runner**  
**4.0L V-6**



<u>Parts List</u>	
AIR-KIT628PA	Aluminum Plate (1)
AIR-KIT628G	Gasket (1)
AIR-KIT628H	Hardware
	6mm x 60mm Bolt (4)
	6mm Flat Washer (4)

Tools Required For Installation

5/16", 10mm Socket  
Ratchet and Extension

**NOT LEGAL FOR SALE OR USE ON ANY POLLUTION CONTROLLED MOTOR VEHICLE IN CALIFORNIA OR STATES ADOPTING CALIFORNIA EMISSION PROCEDURES.**

See AIRAID.COM for CARB status on each part for a specific vehicle.



Thank you for purchasing the PowerAid Throttle Body Spacer. Please read the instruction manual carefully before proceeding with the installation. Your PowerAid Throttle Body Spacer was carefully inspected and packaged. Check that no parts are missing, or were damaged during shipping. If you need any assistance please call 1-800-858-3333 to speak with a representative in our Customer Service Center before returning the product.

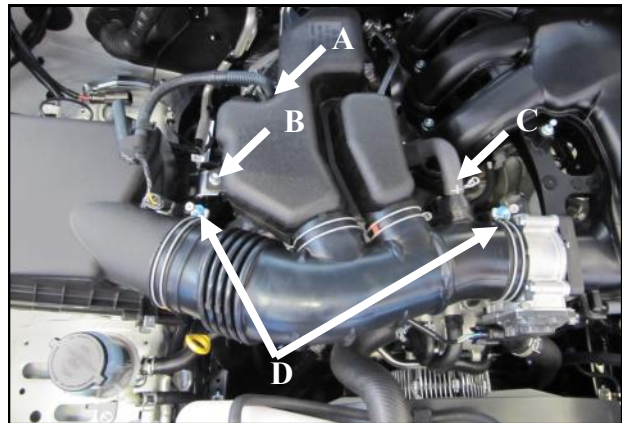
*Thank you for selecting AIRAID.*



**Disconnect The Negative Battery Terminal.**

**1. Remove the engine cover.**

Lift up on the front of the engine cover to unseat the mounting grommets and remove it from the vehicle.



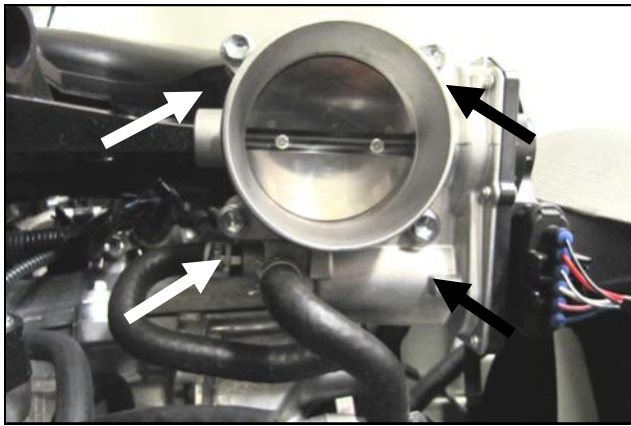
**2. Remove the factory intake.**

A.) Pry the wire harness anchor from the intake resonator chamber

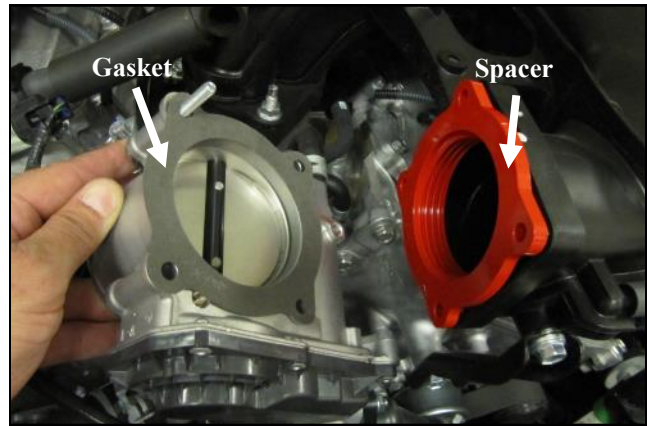
B.) Remove the 6mm anchor bolt from the resonator.

C.) Disconnect the crankcase breather and fuel pressure regulator lines.

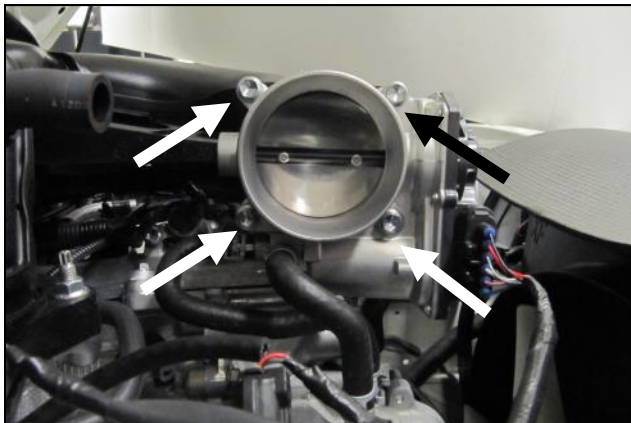
D.) Loosen the clamps on both ends of the intake tube and remove the entire intake/resonator assembly.



3. Remove the four bolts that secure the throttlebody to the intake manifold.



4. Insert the Poweraid Spacer into the intake manifold as shown. Prepare the throttlebody for installation by placing the gasket on it and using one of the supplied bolts and washers as an alignment aid. \*Note: Poweraid spacer must be installed with bore protruding into intake manifold away from throttle body. Incorrect installation will hinder performance. Reference picture below for spacer orientation.



5. Install the provided bolts and washers thru the throttlebody and Poweraid Spacer and tighten to the manufacturer's specifications in an X Pattern.



6. Reinstall the factory intake tube, tighten the two hose clamps, and reconnect the crankcase breather and Fuel pressure regulator lines. Reinstall the engine cover.  
**Re-connect the negative battery cable!**



**Airaid Intake Systems PN. 510-302  
2010-2012 Toyota FJ Cruiser and 4 Runner**



**Example of proper spacer installation. Spacer must protrude into intake manifold and away from throttle body.**



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Rev.01.8.19

Contact your nearest Airaid dealer for the Airaid Intake System for your Vehicle

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