



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

## INSTALLATION INSTRUCTIONS

### PART NUMBER:21-8405

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2007-2009

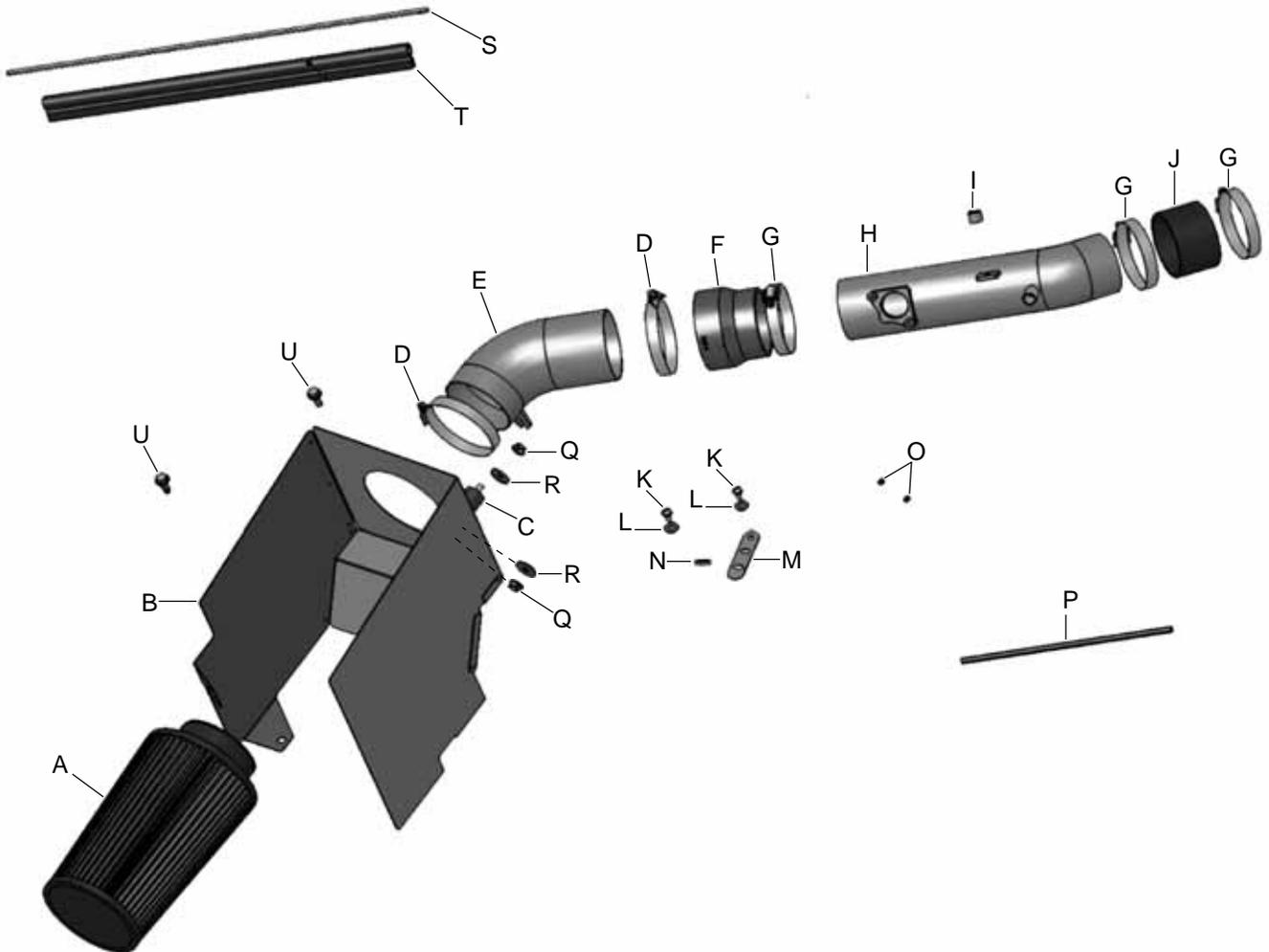
TOYOTA FJ Cruiser V6-4.0L

SEE \* NOTE

\* **NOTE:** Legal in California only for racing vehicles which may never be used upon a highway

## PARTS LIST

Description	Qty.	Part Number
A	1	21-2049D
B	1	20-8405
C	1	1228560
D	2	9456
E	1	2-84051
F	1	5-582
G	3	9448
H	1	2-84031
I	1	2-784
J	1	5-302
K	2	1-2065
L	2	1-3028
M	1	32-3049
N	1	2-665
O	2	1-2023
P	1	5-3020
Q	2	444.460.08
R	2	559960
S	1	8-3014
T	1	8-4033
U	2	1-2025



Read and understand these instructions **BEFORE** attempting to install this product. Failure to follow installation instructions and not using the provided hardware may damage the intake tube, throttle body and engine.

## 1. Preparing Vehicle

- a. Make sure vehicle is parked on level surface.
- b. Set parking brake.
- c. If engine has run in the past two hours, let it cool down.
- d. Disconnect negative battery terminal.
- e. Do not discard stock components after removal of the factory system.

## 2. Removal of stock system



a. Factory air box system installed.



b. Remove two nuts securing the engine cover to the intake system and engine.



c. Disconnect the Mass Air Flow (MAF) sensor.



d. Disconnect the breather hose located in the front of the intake system.



e. Disconnect the breather hose located in the back of the stock intake system connected to the fuel pressure regulator.



f. Remove the bolt securing the stock intake system to the intake manifold.



g. Remove the bolt securing the stock air box to the valve cover. Keep this bolt as it will be reused later. Also, disconnect the zip ties connected to the stock air box.



h. Remove the two bolts that secure the intake tube to the fender well.



i. Loosen the hose clamp securing the stock air box to the throttle body.



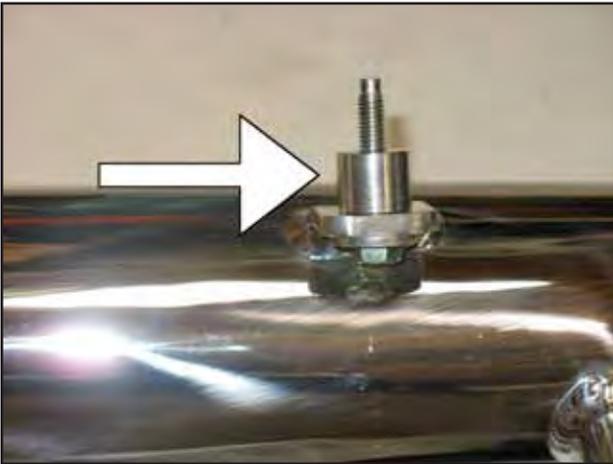
j. Remove the bolt securing the A/C line bracket.



k. Factory air box completely removed from vehicle.

### 3. Installation of AEM® intake system.

- a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.



b. Install threaded bung on pipe using the bolt removed in step 2g.



c. Install mass air flow sensor in pipe using supplied bolts.



d. Secure the supplied stainless steel bracket to the valve cover using supplied bolt and washer.



e. Attach the zip ties that we removed from the stock intake system to the previously installed bracket.



f. Install the 5/32" hose to the fuel pressure regulator.



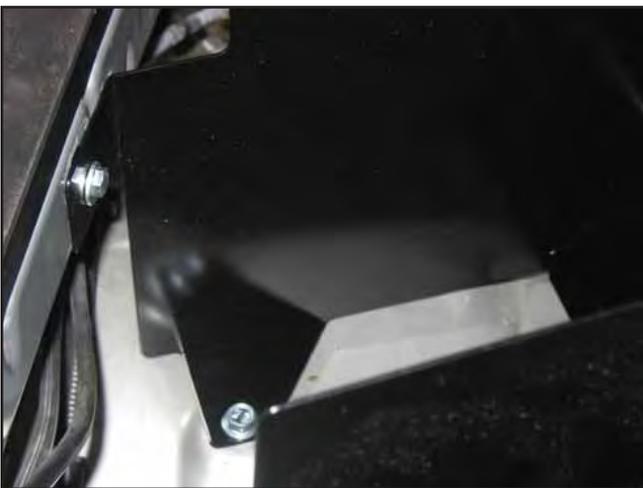
g. Place the supplied spacer on top of the A/C line bracket. Lining it up with the hole beneath it.



h. Prepare the heat shield with edge trim and rubber gasket then place in the engine bay as shown.



i. Line up the hole that is nearest to the front of the vehicle first. Then, run the supplied bolt through the heat shield and the spacer.



j. Install the other two supplied bolts (1-2025).



k. Install the rubber mount in the heat shield with the supplied 8mm washer and serrated nut.



l. Install the coupler loosely at the throttle body using the supplied #48 hose clamps.



m. Insert the upper pipe into the coupler at the throttle body.



n. Line up the bolt that is attached to your upper intake pipe with the hole on the engine cover, then remove the engine cover again.



o. Install the screened hose adapter to the end of the upper pipe and guide the lower pipe through the heat shield, while lining up the bracket with the rubber mount as well.



p. Use the supplied 8mm washer and serrated nut to secure the lower pipe to the rubber mount.



q. Attach the hose installed in step 3f. to the small nipple located on the back of the intake pipe.



r. Reattach the PCV hose to the nipple on the upper pipe using the stock hose clamp. Also plug the MAF sensor back in.



s. Install filter on the end of the lower pipe.



Factory intake system installed



AEM® intake system installed

#### 4. Reassemble Vehicle

- a. Position the inlet pipes for the best fitment. Be sure that the pipes or any other components do not contact any part of the vehicle. Tighten the rubber mount, all bolts, and hose clamps.
- b. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them.
- c. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened.
- d. Reconnect negative battery terminals and start engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

#### 5. CARB Sticker Placement

- a. The C.A.R.B. exemption sticker, (attached), must be visible under the hood so that an emissions inspector can see it when the vehicle is required to be tested for emissions. California requires testing every two years, other states may vary.

#### 6. Service and Maintenance

- a. It is recommended that you service your AEM® Dryflow™ filter every 20,000 miles for optimum performance. Use AEM Dryflow cleaning kit part # 21-110.
- b. Use aluminum polish to clean your polished AEM® intake tube.
- c. Use window cleaner to clean your powder coated AEM® intake tube. **(NOTE: DO NOT USE aluminum polish on powder coated AEM intake tubes).**

For technical inquiries  
e-mail us at  
sales@aemintakes.com  
or  
call us at  
800.992.3000

#### AEM Air Intake System Warranty Policy

AEM® warrants that its intake systems will last for the life of your vehicle. AEM will not honor this warranty due to mechanical damage (i.e. improper installation or fitment), damage from misuse, accidents or flying debris. AEM will not warrant its powder coating if the finish has been cleaned with a hydrocarbon-based solvent. The powder coating should only be cleaned with a mild soap and water solution. Proof of purchase of both the vehicle and AEM intake system is required for redemption of a warranty claim.

This warranty is limited to the repair or replacement of the AEM part. In no event shall this warranty exceed the original purchase price of the AEM part nor shall AEM be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to AEM must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is nontransferable. Improper use or installation, use for racing, accident, abuse, unauthorized repairs or alterations voids this warranty. AEM disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by AEM. Warranty returns will only be accepted by AEM when accompanied by a valid Return Merchandise Authorization (RMA) number. Credit for defective products will be issued pending inspection. Product must be received by AEM within 30 days of the date RMA is issued.

If you have a warranty issue, please call (800) 992-3000 and our customer service department will assist you. A proof of purchase is required for all AEM warranty claims.