



Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

PART NUMBER: 21-569

2005-2006 SCION tC L4-2.4L SEE * NOTE

Please note that part number 21-569 includes an AEM® intake bypass valve

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

PARTS LIST

Description	Qty.	Part Number
Upper Pipe	1	2-562
Middle Pipe	1	2-708
Lower Pipe	1	2-564
Hose, Silicone 2.50 X 3" Blk.	1	5-250
Hose, Silicone 2.50 X 2" Blk.	1	5-252
1/2' Bnd. Hose Clamp, 2.15-3.00"	4	9440
Mount, Rubber 1" x 6mm	3	1228599
Nut, M6 Hex Serrated	4	444.460.04
Washer, 6mm Soft Mount	3	08160
Bolt, Socket 8-32 x 5/16 SS	2	1-2023
Bolt, Hex M5-.8, 12MM	1	1-2098
Washer, M5 Split Lock SS	1	1-3046
Air Filter Assy 2.50 X 5" Dry Ele.	1	21-201DK
Helical Bundling Wrap; 1/2" x 5"L	1	8-8005
Washer, M6 Ext. Tooth Lock	1	1-3041
1/2" Bnd. Hose Clamp, 2.56"-3.50"	2	9448
BPV Kit, 2.50" W/Clip No Box	1	20-401SN

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.

The AEM® intake system is a performance product that can be used safely during mild weather conditions. During harsh and inclement weather conditions, you must return your vehicle to stock OEM air box and intake tract configuration. Failure to follow these instructions will void your warranty.

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 all negative battery terminals.
- e. Raise the front of the vehicle with a jack. Refer to your owner's manual for proper jack and jack stand placement to properly support vehicle. Support your vehicle using properly rated jack stands before wheel removal or while working under the vehicle.
NEVER WORK UNDER A VEHICLE WITHOUT USING JACK STANDS.
- f. Do not discard stock components after removal of the factory system.

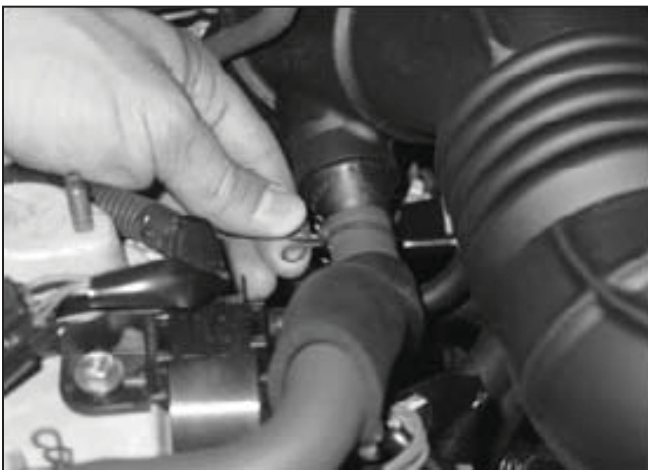
2. Removal of stock system



a. Remove the engine cover.



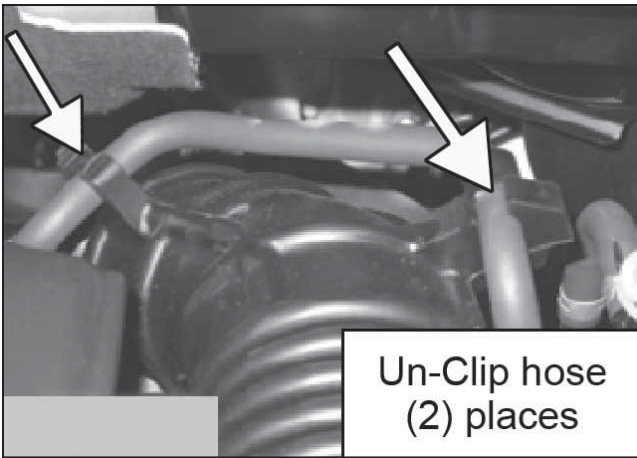
b. Disconnect the mass air flow (MAF) sensor.



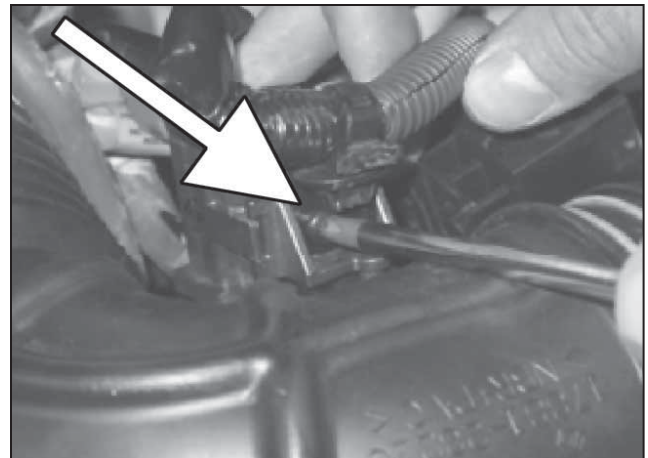
c. Disconnect breather hose from intake tube.



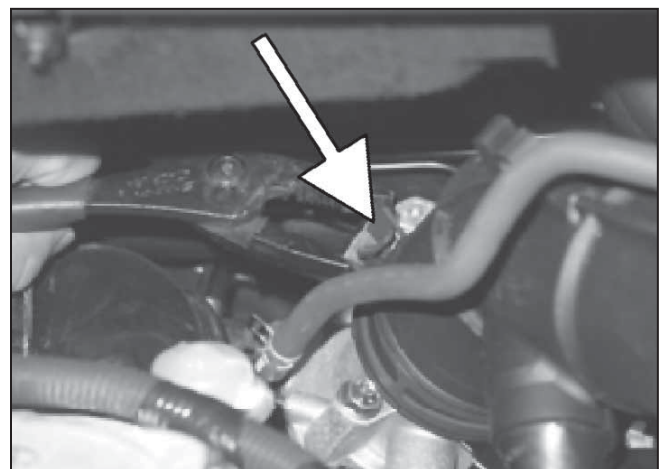
d. Remove MAF sensor from intake tube.



e. Unclip the VSV hose from intake tube.



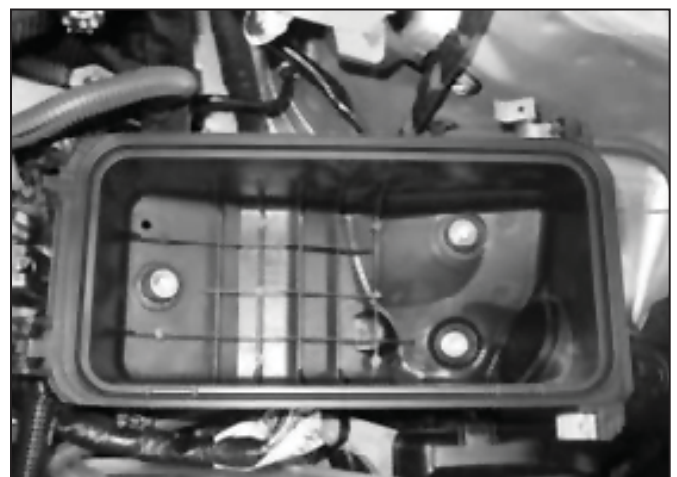
g. Unclip the air box lid, but do not remove.



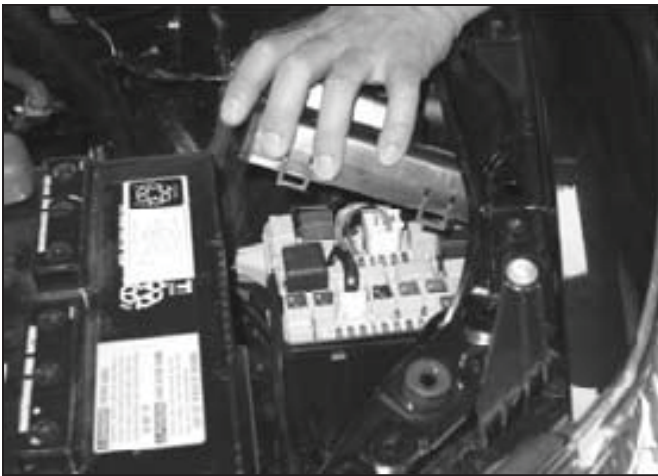
h. Release the hose clamp securing the intake tube to the throttle body, then remove the intake tube / air box lid assembly.



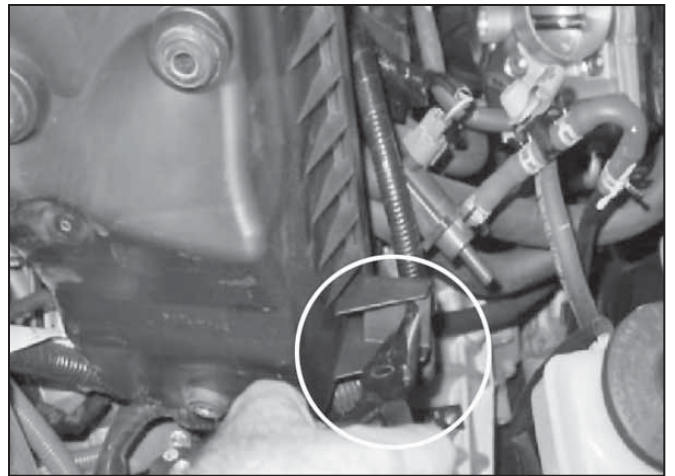
i. Remove the air filter element.



j. Remove the 3 bolts holding the air box in place.



k. Remove the fuse box lid.



l. Tilt the air filter housing up towards the engine and use needle-nose pliers to unclip the MAF sensor/VSV wire harness from the housing.



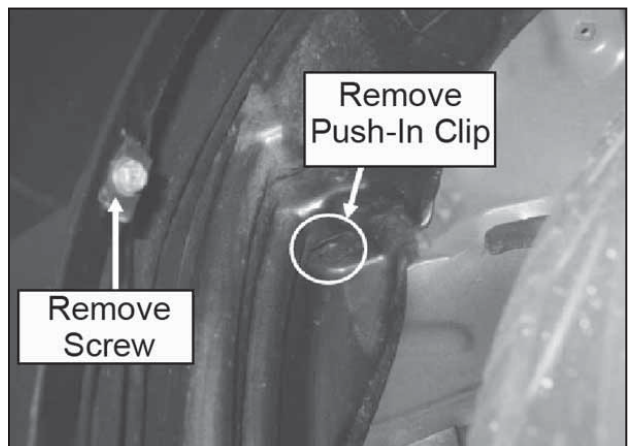
m. Remove the upper clip securing the lower intake tube.



n. Remove the second clip from the lower intake tube. Then remove the lower intake tube.



o. Remove the driver side splash shield.



p. Remove the screw and clip securing the driver side fender liner.



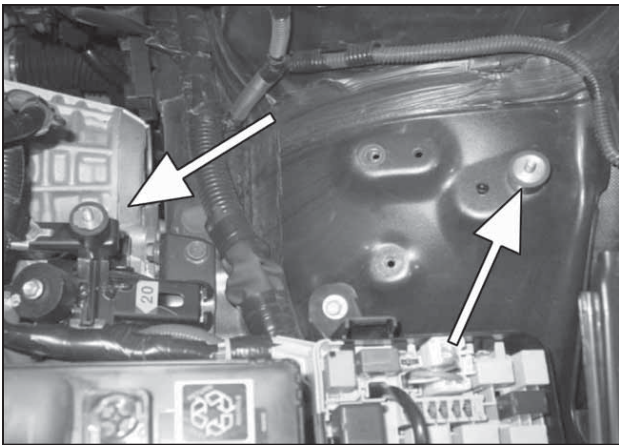
q. Remove the bolt securing the ground wire to the chassis.



r. Secure the ground strap to the frame of the vehicle with the rubber mount, M6 star washer, and M6 lock nut in the order shown.

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 the (2) supplied rubber mounts.



c. Install the MAF sensor into the upper intake pipe using the supplied screws.



d. Install the air bypass valve on the upper intake pipe.



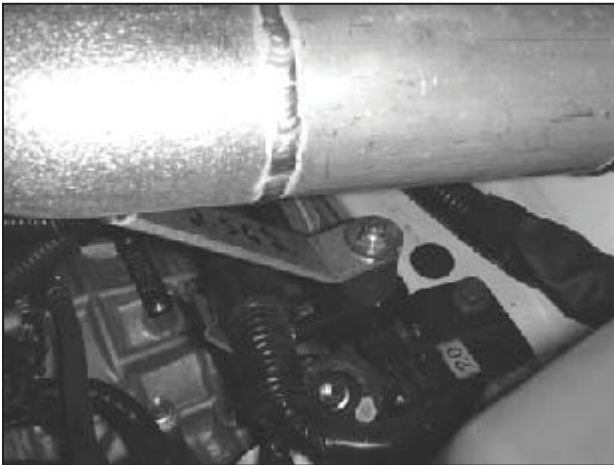
e. Install the long coupler onto the throttle body. Install one clamp and tighten. Install the other clamp but do not tighten at this time.



f. Install the upper intake pipe into the long coupler connected to the throttle body.



g. Install and connect the middle intake pipe to the air bypass valve. The pipe brackets will line up with the rubber mounts installed in step 3b.



h. Loosely secure the first bracket to the rubber mount with a washer and nut as shown.



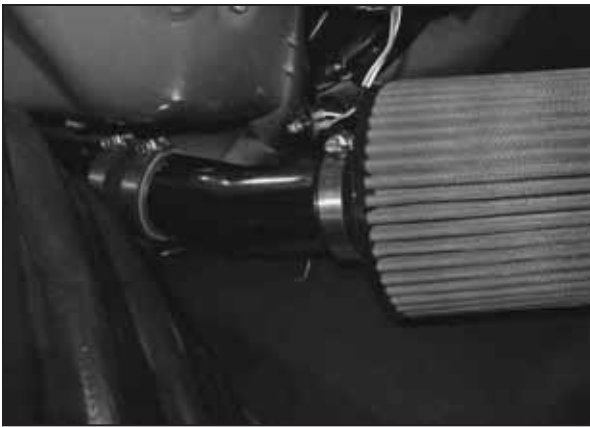
i. Loosely secure the second bracket to the rubber mount with a washer and nut as shown.



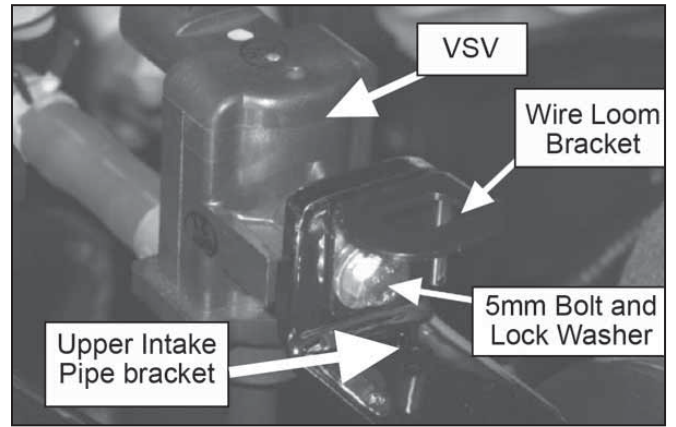
j. Install the small coupler onto the other side of the middle intake pipe.



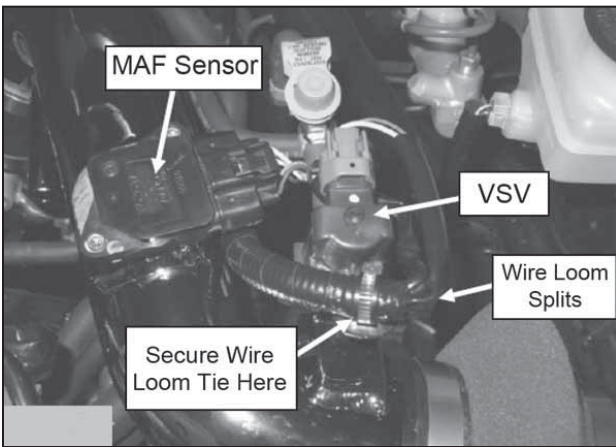
k. Slide the lower intake pipe into the coupler and attach the bracket to the rubber mount that was installed in step 2r. Secure the bracket with a lock nut and washer.



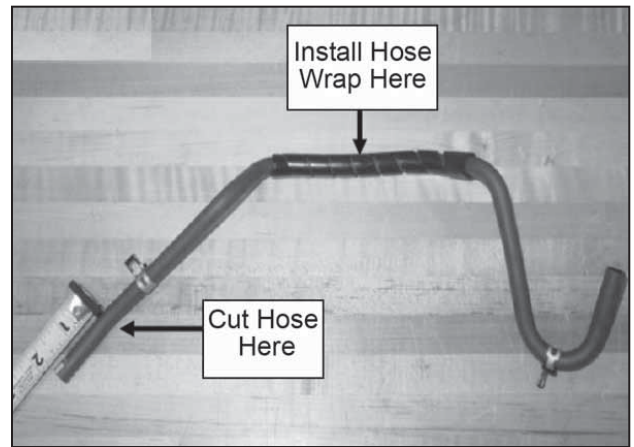
l. Install the air filter onto the lower intake pipe.



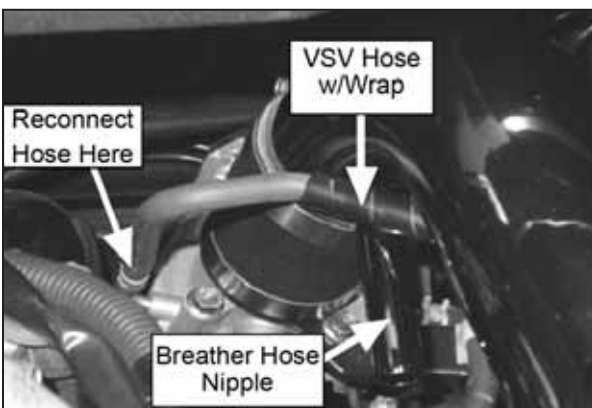
m. Use the 5mm bolt and lock washer to secure the wire loom bracket and the VSV to the bracket of the upper intake pipe.



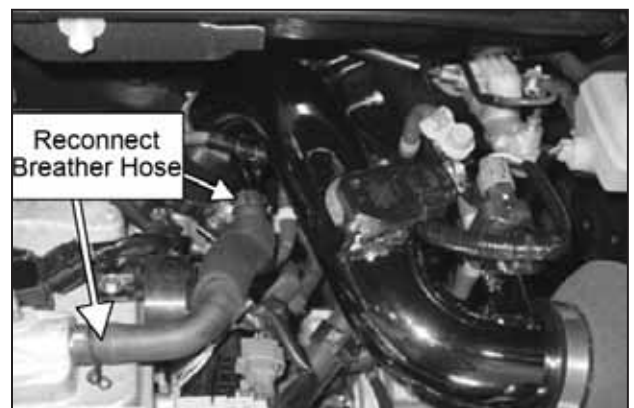
n. Reinstall the MAF sensor wire harness. Everything installed should look similar to the picture above.



o. Use a tape measure and diagonal cutters to remove 1.75-inches from the VSV vacuum hose. Install the hose wrap onto the VSV vacuum hose as shown.



p. Reinstall the VSV vacuum hose as shown.



q. Reconnect the breather hose to the valve cover and connect the opposite end to the nipple of the upper intake pipe.

4. Reassemble Vehicle

- a. **Fender liner and splash guard:** Install the fender liner, lower splash guard and any hardware that was removed in steps 2o. through 2p.
NOTE: Failure to install the fender liner will result in diminished performance and increase the potential for engine damage due to water ingestion in rainy conditions.
- b. **Wheel:** Install the driver side wheel using the factory torque specification (see owner's manual).
- c. Reinstall the engine cover.
- d. Position the intake 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.
- e. Check for proper hood clearance. Readjust pipes if necessary and re-tighten them.
- f. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened.
- g. Reconnect negative battery terminals and start engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

5. 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.