



Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

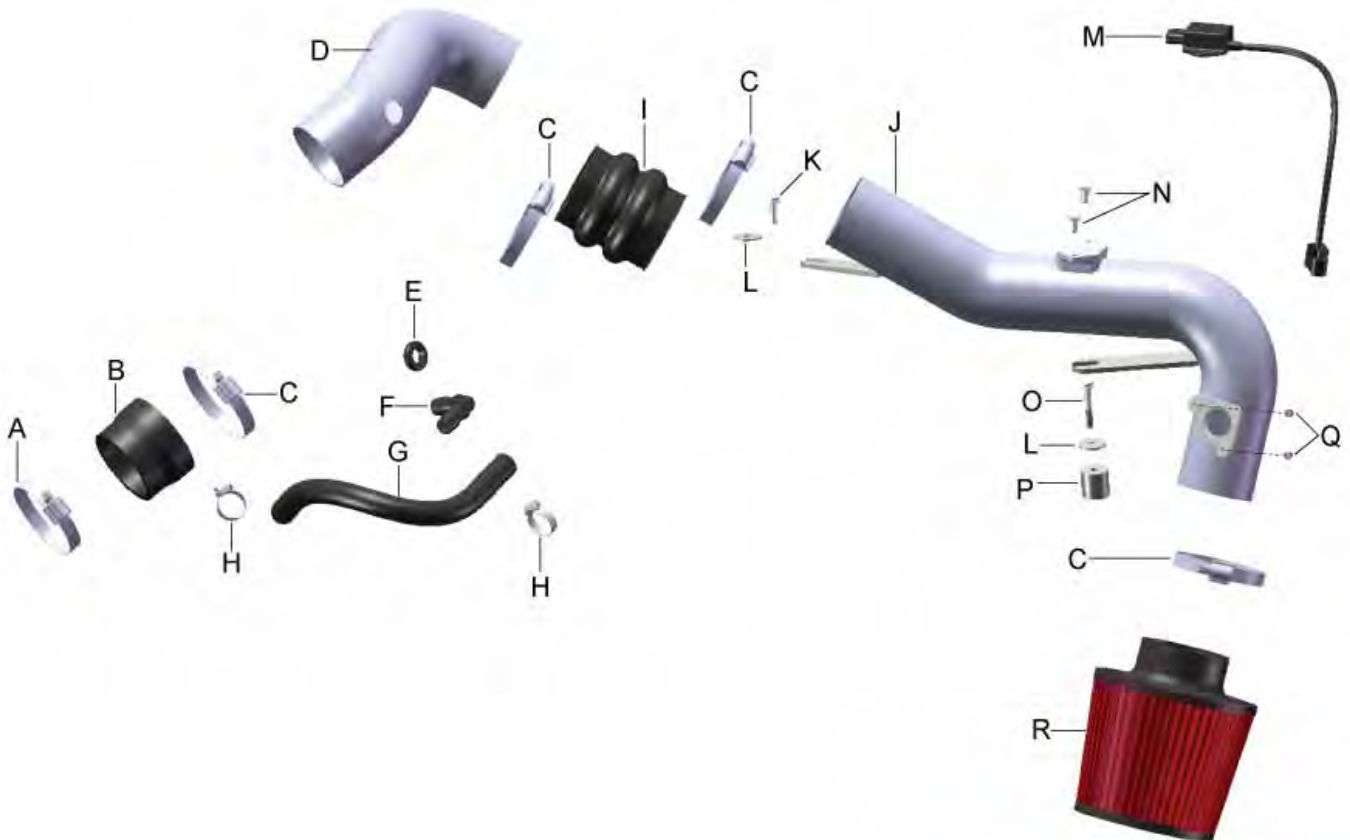
PART NUMBER:41-1403

2010-2011 TOYOTA Corolla L4-1.8L 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	1/2' Bnd. Hose Clamp, 2.15-3.00"	1	9440
B	Hose, Adapter 2.50/2.75 X 2" Bl.	1	5-256
C	1/2" Bnd. Hose Clamp, 2.31-3.25"	4	9444
D	Tube; Upper	1	2-1441
E	Grommet; 1-1/8"OD, 5/8"ID, 5/16" Thk.	1	08053
F	Elbow, Plastic 5/8"	1	8-120
G	Hose; 5/8"ID X 15"L	1	5-7015
H	Hose Clamp, 1"	2	99024.032
I	Hose, Dbl. Hump 2.75/2.75x3" Blk.	1	5-577
J	Tube; Lower	1	2-1444
K	Bolt, Hex/Flange M6-1 X 20	1	1-2038
L	Washer, 6mm Soft Mount	2	08160
M	ETi Module; Corolla, Programmed	1	40-1403-002
N	Bolt, Hex M6-1 X 12mm	2	1-2065
O	Bolt, Hex/Flange M6-1 X 40	1	1-2075
P	Spacer, 1.00 OD .256 ID X 1"	1	2-658
Q	Bolt, Socket M4-.7 X 8mm	2	1-2105
R	A/F Assy. 2.75 X 5" Dry	1	21-202DK



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 inter-cooler system, 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 negative battery terminal.
- 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 plastic engine cover.



b. Disconnect the positive battery terminal. Remove the battery and plastic battery tray. Refer to the owner's manual for specific details regarding battery removal.



c. Pinch the hose clamp securing the PCV hose to the vent tube on the valve cover, then remove the hose.



d. Unplug the MAF harness connector from the MAF sensor.



e. Remove the MAF sensor harness clip from the air filter housing.



f. Unlock the two clips at the back of the air filter housing.



g. Loosen the hose clamp that secures the intake hose to the throttle body.



h. Remove the intake hose and upper air filter housing from the vehicle, and then remove the filter element from the lower air filter housing.



i. Remove the 3 bolts that secure the lower air filter housing to the vehicle chassis.



j. Remove the bolt that secures the harness bracket to the back of the lower air filter housing.



k. Remove the lower air filter housing.



l. Remove the metal bracket from the harness, lift the tab up and remove the bracket as shown.



m. Behind the headlights locate the clip securing the intake duct. Remove the clip and then remove the duct.



n. Locate the 2 bolts at the bottom of the vehicle that secure the lower portion of the plastic wheel well liner to the front bumper; remove these two bolts.



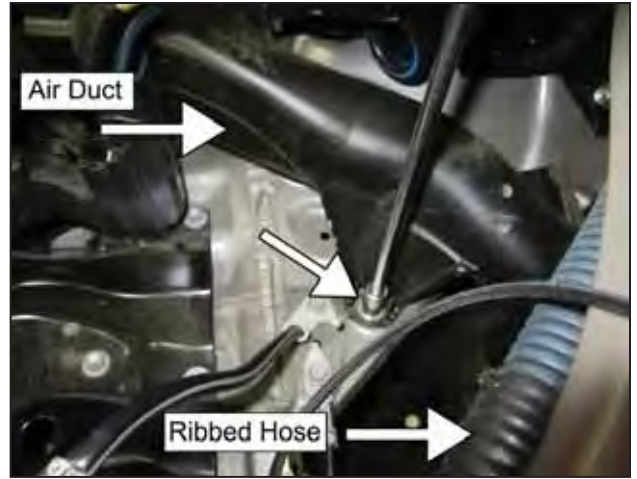
o. Remove the clips securing the wheel well liner to the inner fender allowing it to hang down as shown.



p. Remove the 2 bolts and nut that secure the resonator box to the inner fender well, remove the resonator box from the vehicle.



q. Locate the air duct and hose assembly behind the driver side headlight. Remove the bolt that secures the hose in its folded position.



r. Remove the bolt that secures the air duct / ribbed hose assembly, and then remove the assembly by sliding it out from underneath the 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. Remove the MAF sensor from the stock airbox. Install the MAF sensor and ETI module onto the lower inlet pipe with the provided hardware. Once installed connect the ETI module harness to the MAF sensor as shown.



c. Install the lower inlet pipe, securing the inlet pipe brackets with the provided hardware.



d. Route the MAF sensor harness to the ETI module as shown, connect the harness connector to the ETI module.



e. Attach the air filter to the lower end of the lower inlet pipe with hose clamp #9444.



f. Attach the throttle body coupler to the throttle body with a #9444 and #9440 hose clamp.



g. Slip the double hump hose onto the inlet pipe, but do not completely tighten the #9444 hose clamps.



h. Install the grommet into the hole of the upper inlet pipe.



i. Install the upper inlet pipe ensuring it is evenly distributed in the coupler and hump hose. Secure the pipe in place by tightening the hose clamps.



j. Slide the 5/8" hose over the 90° plastic elbow and secure it with the hose clamp (# 99024.032).



k. Press the exposed end of the plastic elbow into the grommet hole. Soapy water may ease the installation of the plastic elbow into the grommet.



l. Attach the other end of the hose onto the PCV vent and secured it with a supplied hose clamp (# 99024.032).



m. Install the plastic battery tray, the battery and the battery tie down. Reconnect the positive battery terminal. Refer to the owner's manual for specific details regarding battery installation.



n. Install the engine cover.



AEM® intake system installed

4. Reassemble Vehicle

- a. **Fender liner and splashguard:** Install the fender liner, lower splash guard and any hardware that was removed in steps 2n through 2o.
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. 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.
- d. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them.
- e. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened.
- f. Reconnect negative battery terminal 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.