



Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

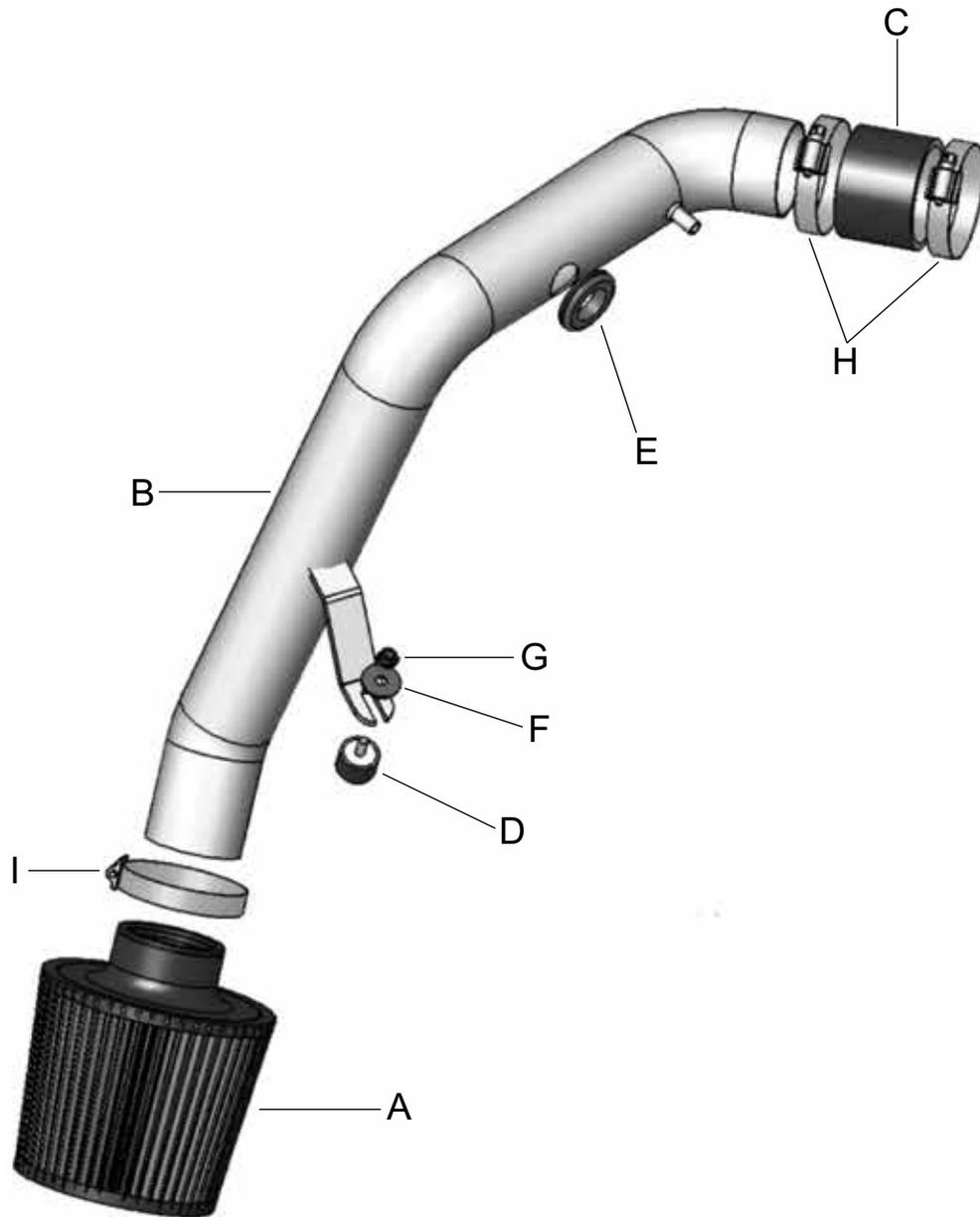
PART NUMBER: 21-537

2004-2007 CHEVROLET Aveo L4-1.6L C.A.R.B. E.O. # D-670-2

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

PARTS LIST

Description	Qty.	Part Number
A Air Filter Assy. 2.50 x 5" Dry Ele.	1	21-201DK
B Intake Pipe	1	2-747
C Hose, Silicone 2.50 x 2" Black	1	5-252
D Mount, Rubber 5/8" x 6mm	1	1228598
E Grommet, PCV 3/4ID 1 3/8OD	1	784645
F Washer, 6mm Soft Mount	1	08160
G Nut, M6 Hex Serrated	1	444.460.04
H 1/2' Bnd. Hose Clamp, 2.15-3.00"	2	9440
I 1/2" Bnd. Hose Clamp, 2.31-3.25"	1	9444



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.

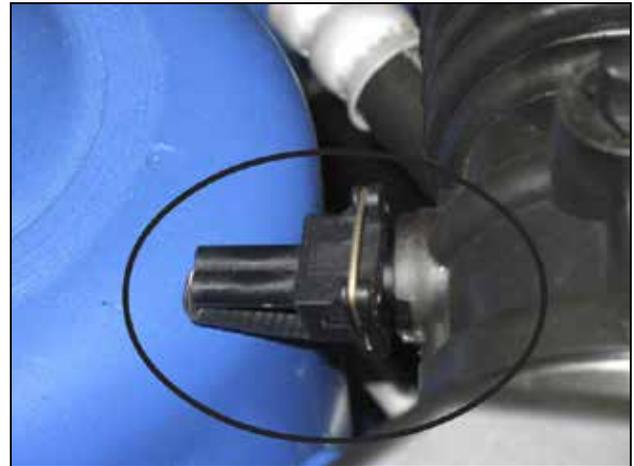
NEVER WORK UNDER A VEHICLE WITHOUT USING JACK STANDS.

- i. Remove the passenger side wheel.
- f. Do not discard stock components after removal of the factory system.

2. Removal of stock system



a. Stock air box system installed.



b. Unplug the inlet air temperature (IAT) wiring harness by removing the retaining clip.



c. Remove the breather hose from the inlet tube.



d. Loosen the hose clamp on the throttle body.



e. Loosen and remove the three bolts securing the air filter housing to the chassis. Remove the housing and the inlet hose by lifting straight up.



f. From the passenger side wheel well, remove the nut and bolt securing the inner splash shield to the chassis.



g. From underneath the vehicle remove the two bolts and two plastic connectors holding the splash shields in place. Remove the lower shield and move the fender well liner out of the way.



h. Remove the two bolts, one plastic nut, and the plastic retaining clip on the lower resonator and resonator inlet pipe respectively.



i. Remove the lower intake resonator.



j. Remove the inlet air temperature (IAT) sensor from the stock inlet tube. This may be glued in place so use a sharp knife to cut the glue along the gap and pull the IAT out of the tube.



k. Stock air box system removed.

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 straight coupler onto the throttle body and secure using a #40 hose clamp.



c. Locate the front threaded hole where the stock air filter housing was secured. Thread the supplied rubber mount into the hole in the engine compartment as shown.



d. Install the supplied rubber edge trim around the hole in the inner fender.



e. Install the supplied grommet into the hole on the inlet pipe. Gently press the IAT sensor into the grommet as shown.



f. Install the inlet pipe into the coupler on the throttle body. This should be done by sliding the bracket side of the pipe through the hole in the inner fender. Secure the pipe using a #40 hose clamp.



g. Align the inlet pipe mounting bracket with the previously installed rubber mount. Secure the bracket using the supplied M6 washer and nut.



h. Install the air filter on to the end of the lower inlet pipe. Push the filter over the pipe until the stop in the filter is reached. Use a #44 clamp to secure the filter onto the inlet pipe.



i. Attach the stock breather hose to the nipple on the inlet pipe using the factory spring clamp.



j. Plug the wiring harness into the IAT sensor mounted in the intake pipe. Route the wires under the inlet pipe to avoid scratching the pipe's finish.



Stock air box system installed.



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 2f through 2g.
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 passenger 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 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.