



Equipped with AEM® *Dryflow™* Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

PART NUMBER: 21-532

2005-2007 CHEVROLET Cobalt L4-2.0L Supercharged

C.A.R.B. E.O. # D-670-2

PARTS LIST

Description	Qty.	Part Number
Element Parts Kit 3.00 X 5" Dry Ele.	1	21-203DK
Inlet Pipe	1	2-363
Bolt, Socket M4-.7 X 8mm	2	1-2105
Washer, 1/4 X 1-1/4 Fender	1	1-3027
Hose Clamp, #52 2.90-3.75" X .3	1	08465
1/2" Bnd. Hose Clamp, 2.90"-3.75"	1	9452

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.

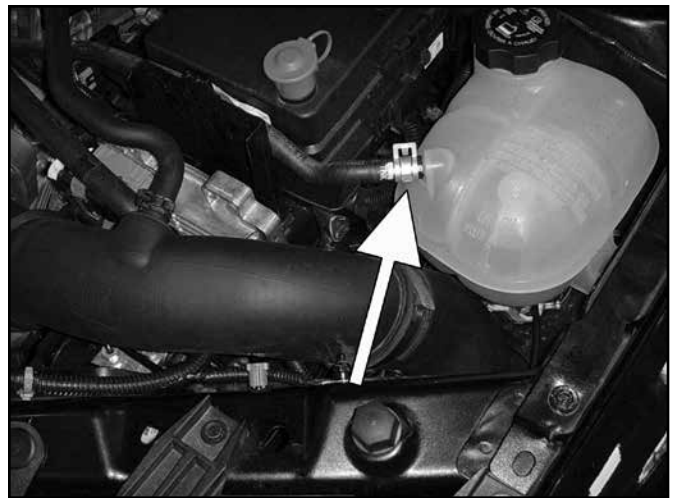
1. Preparing Vehicle

- 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 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. Remove the driver side front wheel.
- g. Do not discard stock components after removal of the factory system.

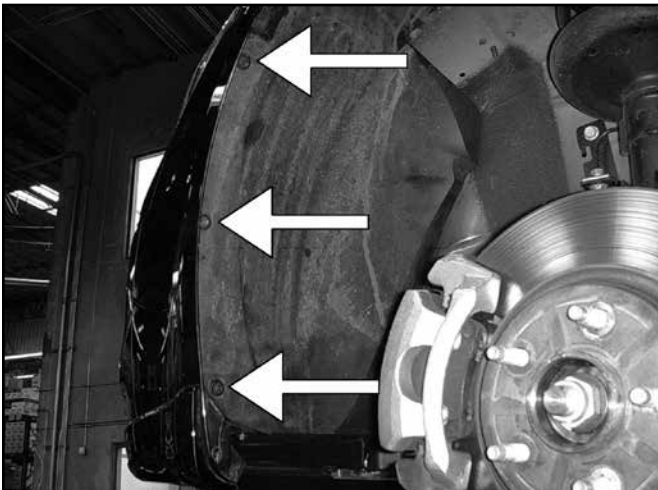
2. Removal of stock system



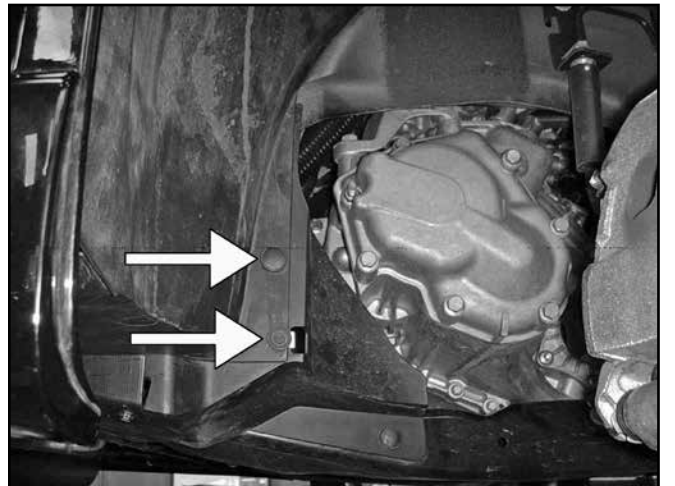
a. Factory air box system installed.



b. Loosen hose clamp from the lower intake pipe.



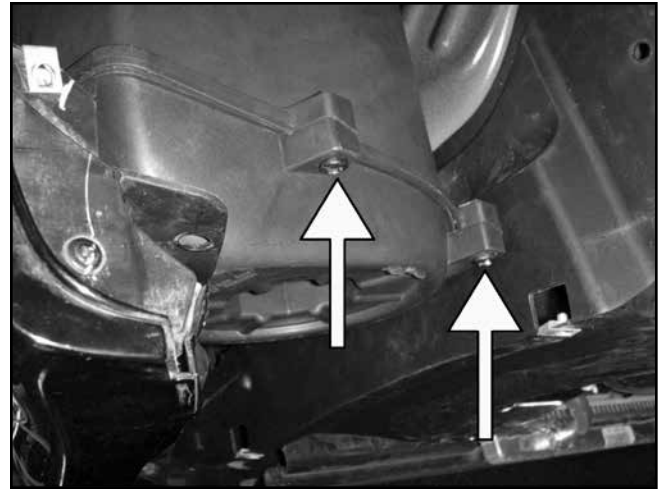
c. Remove the three (3) screws holding the splash guard.



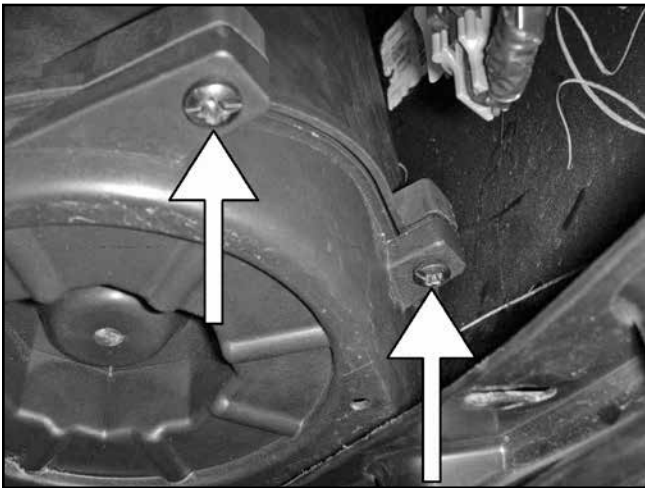
d. Remove one (1) screw and one (1) pop grommet from the splash guard.



e. Remove four (4) screws holding the lower portion of the splash guard. Pull the splash guard back and out of the way.



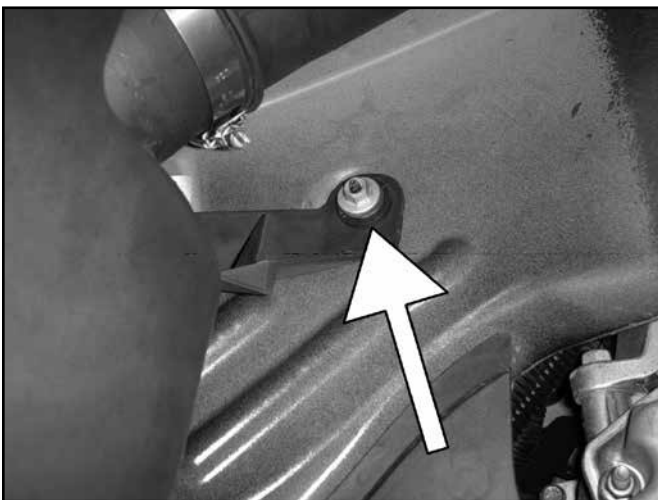
f. Loosen two (2) of the screws on the bottom lid from the air filter box, shown toward the drivers door.



g. Loosen two (2) of the screws on the bottom lid from the air filter box, shown toward the front bumper. Remove the lid and set aside.



h. Pull the air filter down and out of the air filter box.



i. Removed the three (3) nuts holding the air filter box to the chassis with a 10mm wrench/socket.

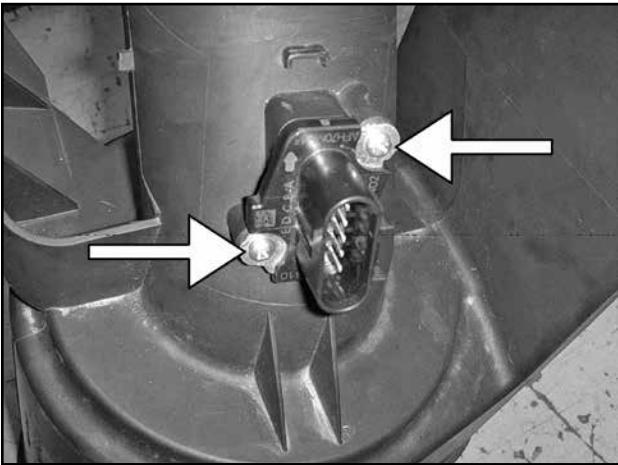




j. Reach to the top side of the air filter box and disconnect the MAF sensor harness.



k. Remove the air filter box from the vehicle. It's helpful to guide the top hose out of the fender hole, and to pull the bumper slightly out for more clearance.



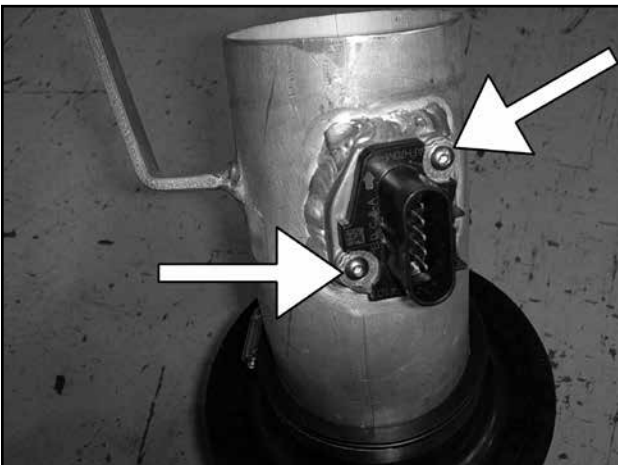
l. Remove the two (2) Phillips head screws and remove the MAF sensor from the air filter box.



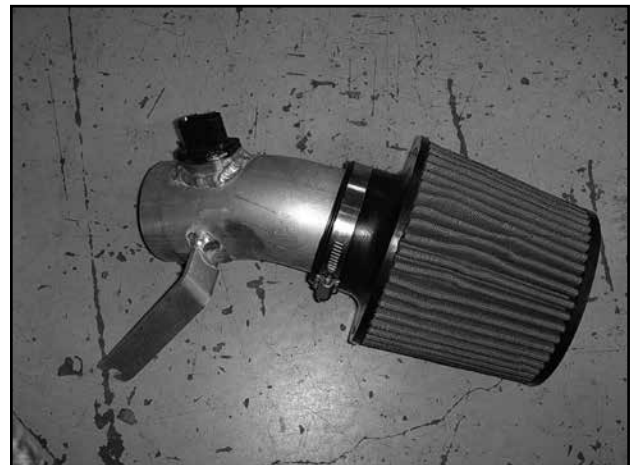
m. Using pliers, remove the stock hose clamp that is crimped onto the stock air filter box.

3. Installation of AEM® intake system.

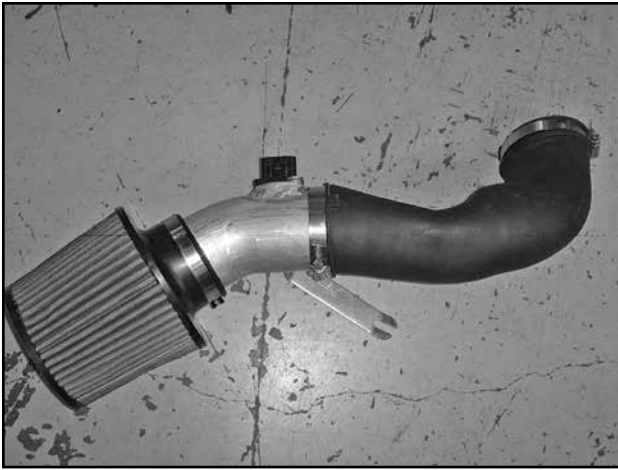
a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.



b. Install MAF sensor onto the AEM® intake pipe using the supplied M4 screws.



c. Install AEM® air filter onto the intake pipe as shown and secure in place.



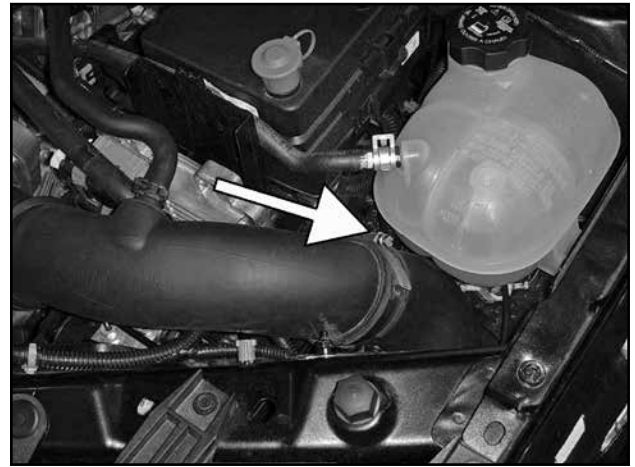
d. Install the stock rubber hose that was connected to the factory air filter box and loosely secure in place with the supplied hose clamp.



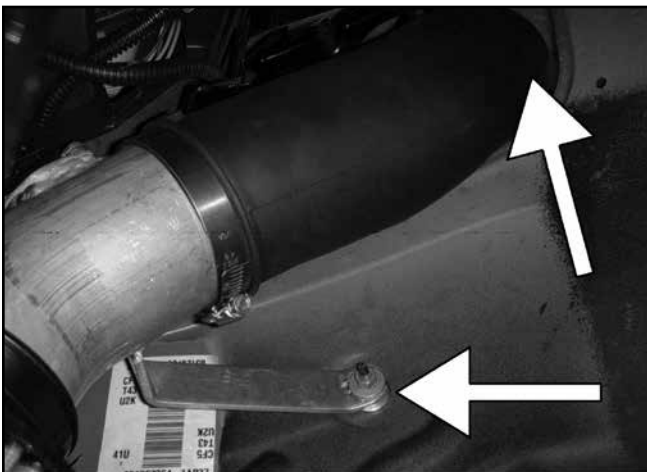
e. Place the fender washer over the rear factory air filter box mount stud.



f. Place the intake system in the vehicle and align it as shown with the mounting bracket in place on the stud. Use one of the factory air filter box mounting nuts to secure the bracket. Don't tighten the nut at this point, but leave it loose enough to adjust the pipe.



g. Reconnect the lower rubber intake tube to the factory upper intake system and tighten the hose clamp.



h. Move the AEM® intake pipe until there is clearance between the fender and the rubber part of the intake pipe. Tighten the nut. Connect the MAF sensor harness to the MAF sensor.

4. Reassemble Vehicle

- a. **Splash guard and lower splash guard:** Install and secure the lower splash guard and inner fender splash guard that were removed in steps 2c through 2e.
- b. **Wheel:** Install the driver's 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).**