

Equipped with AEM<sup>®</sup> Dryflow<sup>™</sup> Filter No Oil Required!

# INSTALLATION INSTRUCTIONS PART NUMBER:

21-533C (Gun Metal Grey Finish)
21-533P (Vacuum Metalized Chrome-VMC)

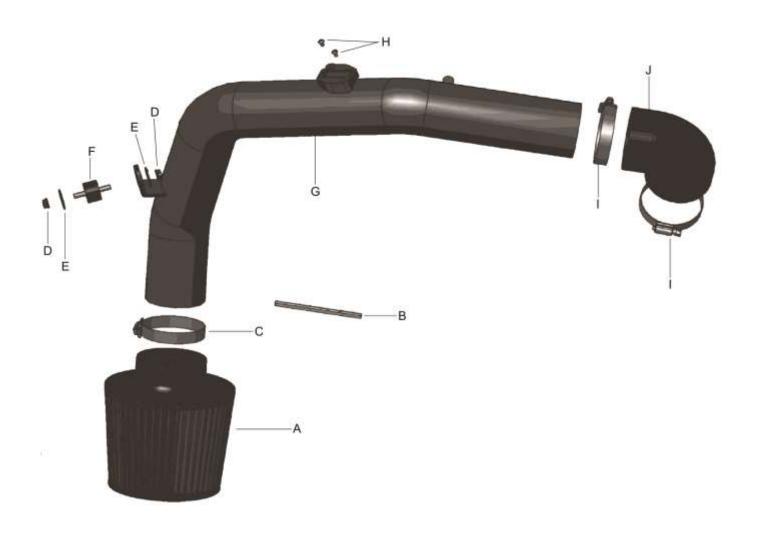
2006 CHEVROLET Cobalt L4-2.4L C.A.R.B. E.O. # D-670-15 2005 CHEVROLET Cobalt L4-2.2L C.A.R.B. E.O. # D-670-15

Intake systems for vehicles listed are 50 state legal. See AEMIntakes.com for CARB status on each part for a specific vehicle.

WWW: http://www.aemintakes.com

## **PARTS LIST**

|   | Description                          | Qty. | Part Number |
|---|--------------------------------------|------|-------------|
| А | Element Parts Kit 2.75 X 5" Dry Ele. | 1    | 21-202DK    |
| В | Rubber Edge Trim 4"                  | 1    | 8-3004      |
| С | 1/2" Bnd. Hose Clamp, 2.56"-3.50"    | 1    | 9448        |
| D | Nut, M6 Hex Serrated                 | 2    | 444.460.04  |
| Е | Washer, 6mm Soft Mount               | 2    | 08160       |
| F | Mount, Rubber 5/8" X 6mm             | 1    | 1228598     |
| G | Inlet Pipe                           | 1    | 2-597       |
| Н | Bolt, Btn. Hd. M4-0.7 X 6mm          | 2    | 1-2051      |
| I | 1/2" Bnd. Hose Clamp, 2.31-3.25"     | 2    | 9444        |
| J | Elbow, 2.75 X 90 1" Legs             | 1    | 5-279       |



Read and understand these instructions <u>BEFORE</u> 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. Do not discard stock components after removal of the factory system.

## 2. Removal of stock system



a. Remove passenger side wheel.



c. Remove the oil cap and then remove the engine cover. Re-install oil cap to avoid getting debris into your engine.



b. Factory air box system installed



d. After removing the engine cover you will gain access to a plastic retainer near the fuel rail. Pry it open to being removal of stock air ducting.



e. Loosen the hose clamp securing the stock inlet tube to the throttle body.



f. Release the mass air flow sensor wire from the mass air flow sensor located in the inlet tube. Also release the air breather hose clamp from the stock inlet tube.



g. Release the two clips holding the air filter lid in place.



h. Pull straight up on the factory air lid assembly and remove it from the vehicle. Also, remove the stock air filter. Then remove the two nuts securing the lower air filter assembly in place and remove it from the vehicle.



i. Remove the front passenger side fender liner to gain access to the lower air box. From inside the fender, release the plastic retainer near the top of the lower air box.



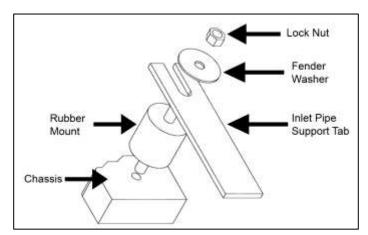
j. Remove the bolt at the front of the lower air box. Remove the lower air box from the vehicle. On the 2006 Cobalt you will need to gain access to this bolt by removing the front part of the fender liner and going underneath the car. After removing this bolt remove the lower box from the vehicle.

## 3. Installation of AEM<sup>®</sup> 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 supplied rubber mount into the hole where the factory lower air box was located.



Proper rubber mount assembly installation.



c. Install the rubber edge trim as shown.



d. Assemble the intake pipe with the supplied 90 degree coupler and two #44 hose clamps. Line up the intake pipe bracket with the rubber mount. Then slide the coupler over onto the throttle body. Do not completely tighten the hose clamps or mounting hardware yet.



e. Use the supplied washer and serrated nut to secure the intake pipe. Install the air filter on the end of the pipe within the fender well. Secure the air filter to the intake pipe.



f. Remove the MAF sensor from the factory air box lid.



g. Use supplied bolts to secure the MAF sensor to the intake pipe. Then connect the wiring harness to the sensor.



h. Secure the stock breather hose to the intake pipe nipple using the stock hose clamp.



Factory air box system installed



AEM® intake system installed

## 4. Reassemble Vehicle

- a. **Fender Liner:** Install the fender liner and any hardware that was removed during the air box system removal.
- 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<sup>®</sup> Dryflow<sup>™</sup> 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<sup>®</sup> 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.

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8