



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

## INSTALLATION INSTRUCTIONS

### PART NUMBER: 21-8014

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2002-2005	CHEVROLET	Avalanche 2500	V8-8.1L	SEE * NOTE
2001-2004	CHEVROLET	Silverado 2500 HD	V8-8.1L	C.A.R.B. E.O. # D-670-2
2001-2004	CHEVROLET	Silverado 3500	V8-8.1L	C.A.R.B. E.O. # D-670-2
2001-2004	GMC	Sierra 2500 HD	V8-8.1L	C.A.R.B. E.O. # D-670-2
2001-2004	GMC	Sierra 3500	V8-8.1L	C.A.R.B. E.O. # D-670-2

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

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## PARTS LIST

Description	Qty.	Part Number
Air Filter Assy. 4.00 X 9" Dry Ele.	1	21-2059DK
Heat Shield	1	20-8014
Inlet Pipe	1	2-80141
Hose, Adapter 4.00/3.50x3" Blk.	1	5-435
Elbow, 4.00 Tight 90 Deg.	1	5-490
Edge Trim, 17"	1	8-4017
Mount, Rubber 1" X 8mm	1	1228560
Zip Tie, 8" Tree Push-Mnt.	1	1-127
Grommet, 1/2"	1	784634
Washer, 8mm Soft Mount	2	559960
Nut, M8 Hex Serrated	2	444.460.08
1/2" Bnd. Hose Clamp, 3.56"-4.50"	4	9464
1/2" Bnd. Hose Clamp, 3.15"-4.00"	1	9456

**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.**

### 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. Do not discard stock components after removal of the factory system.

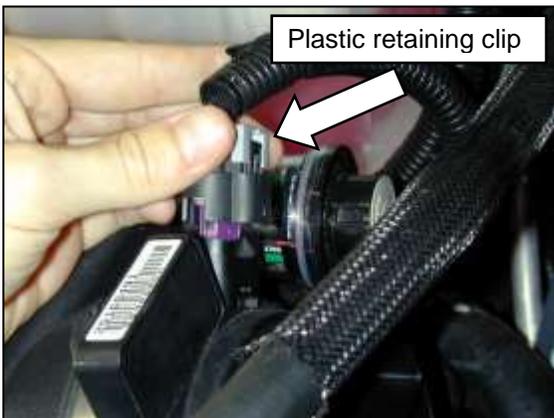
### 2. Removal of stock system



a. Factory airbox system installed.



b. Loosen the hose clamp on the rubber elbow attached to the throttle body. Loosen the hose clamp on the MAF sensor and remove the stock plastic intake pipe.



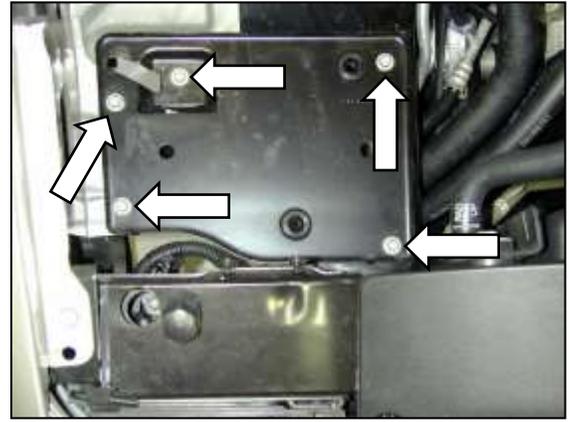
c. Pull back the plastic retaining clip and disconnect the MAF sensor wire harness connector.



d. Loosen the hose clamp securing the MAF sensor to the stock air filter housing and remove the MAF sensor. Be careful not to damage the sensor!



e. Remove the air filter housing by gently lifting up on the inlet pipe of the box. The box is held in with two grommets on the bottom of it. Remove the air filter restriction gauge from the filter housing by gently pulling it out.



f. Remove the five bolts holding the air filter housing mounting plate to the chassis. Remove the mounting plate and set bolts aside for reuse in a later step.



g. Stock airbox system removed from 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.



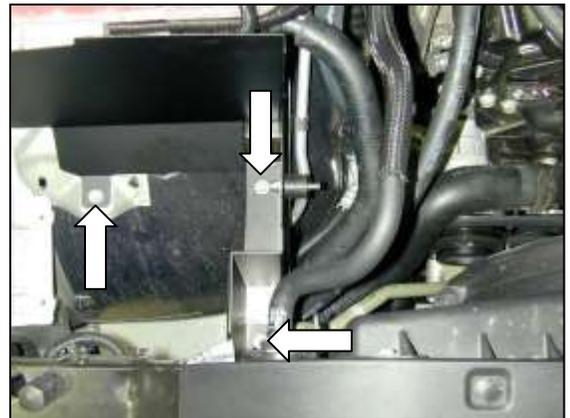
b. Install the supplied rubber mount onto the heat shield as shown using one washer and one nylok nut. Do not fully tighten. It is helpful to run both supplied nylok nuts down the threads once before assembly to make installation easier.



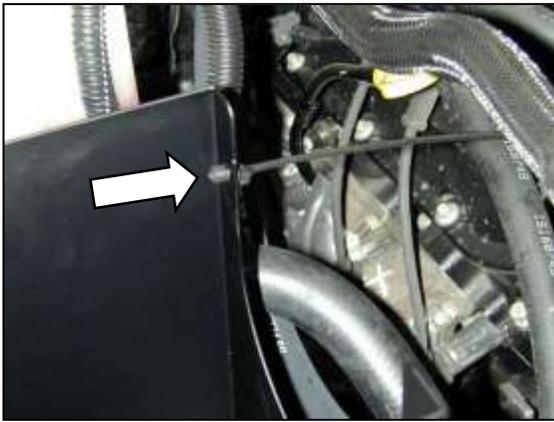
c. Install the rubber grommet into the hole in the intake pipe as shown.



d. Install the supplied rubber elbow onto the throttle body using two #64 hose clamps. Do not fully tighten.



e. Install the heat shield using three of the previously removed stock bolts during step 2(f).



f. Press the supplied zip tie into the heat shield as shown. This will be used to secure the MAF sensor wiring harness.



h. Attach the bracket to the rubber mount using the remaining washer and nylok nut. Do not tighten completely.



j. Attach the air filter assembly to the intake pipe by sliding the silicone coupler over the intake pipe end. Secure with a supplied #64 hose clamp. Ensure that the air filter does not make contact with any part of the vehicle.



g. Slide the pipe into the rubber elbow and align the mounting bracket with the rubber mount previously installed on the heat shield.



i. Securely attach the air filter to the MAF sensor using the supplied hose clamp (inlet side has the mesh screen). Securely attach the silicone coupler to the other side of the MAF sensor using the # 56 hose clamp.



k. Rotate the MAF sensor so the plug is facing up as shown. Plug in the MAF sensor harness as shown. Use the zip tie to secure the harness out of the way and trim the excess.



l. Use a pair of pliers and compress the clamp holding the coolant reservoir hose to the radiator. While compressed, rotate the hose up and away from the intake pipe.



n. Install the air filter restriction gauge into the grommet installed in step 3c.



Factory airbox system installed.



m. The reservoir hose should clear the intake pipe as shown.



o. Tighten the hose clamps at the throttle body and silicone couplers. Tighten the nut on the mounting bracket. Re-adjust the intake pipe if necessary. Install rubber edge trim to the top of the heat shield and trim as necessary.



AEM® intake system installed

#### 4. Reassemble Vehicle

- a. 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.
- b. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them.
- c. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened.
- d. 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.
- b. Most General Motors trucks (including Chevrolet) have the Vehicle Emissions Certification Information (VECI) label affixed to the air filter box. In order to be compliant with California emissions laws, the label MUST remain in the engine compartment. If the Vehicle Emission Control Information label is removed during modification, a new replacement label must be obtained and installed in a readily visible position in the engine compartment. The label shall not be affixed to any equipment which is easily detached from the vehicle. We recommend that the label is affixed to the underside of the hood adjacent to the hood latch. The label is Vehicle Identification Number dependent and can be ordered from the vehicle dealership. In order to receive the proper decal please bring your VIN with you. Failure to have the VECI under the hood may result in failure of a pre-registration smog test.

#### 6. Service and Maintenance

- a. It is recommended that you service your AEM<sup>®</sup> 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<sup>®</sup> 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.