



Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

PART NUMBER: 21-8031

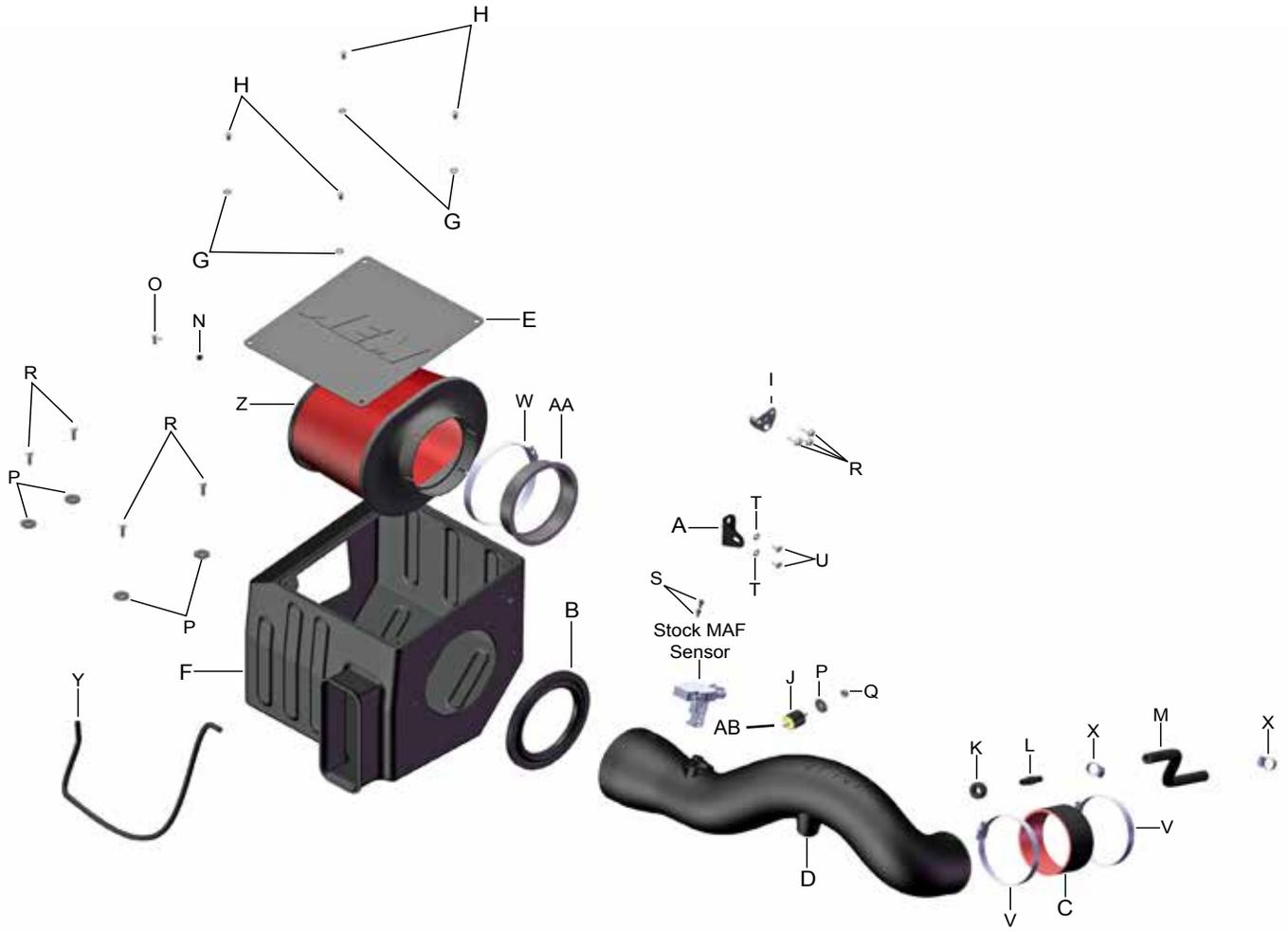
2010-12	GMC	Sierra 2500 HD	V8-6.0L	SEE * NOTE
2010-12	GMC	Sierra 3500 HD	V8-6.0L	SEE * NOTE
2010-12	CHEVROLET	Silverado 2500HD	V8-6.0L	SEE * NOTE
2010-12	CHEVROLET	Silverado 3500HD	V8-6.0L	SEE * NOTE

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

PARTS LIST

	Description	Qty.	Part Number
A	Bracket; Tube, TB/PC	1	32-3079
B	Edge Trim, 18"	1	8-4018
C	Hose, Silicone 4.00x2" Black	1	5-402
D	Inlet Tube	1	9-0402
E	Air Box Lid	1	20-8514
F	Air Box	1	9-0390-1
G	Washer, #12 Nylon 6/6	4	1-3001
H	Bolt; Button Head M6-1.0 X 10mm	4	1-112
I	Adapter; Filter Minder	1	2-604
J	Stud; Rubber Mount, M6X1 Male/Female	1	02033
K	Grommet; 1.05" OD, .5"ID, .1875" Groove	1	784642
L	Connector, Plastic 3/8" Straight	1	8-125
M	Hose; 3/8"ID X 12"L	1	5-1012
N	Grommet, 1/8"	1	784631
O	Elbow, Plastic 5/32" 90 Degree	1	8-152
P	Washer; 1"D X 1/4 Hole Fender	5	08160
Q	Nut; M6 Hex Serrated	1	444.460.04
R	Bolt; Hex/flange M6-1 X 20	7	1-2038
S	Bolt; Socket M4-.7 X 8mm	2	1-2105
T	Washer, M6 X 12mm OD SS	2	1-3016
U	Bolt; Hex M6-1 X 12mm	2	1-2065
V	1/2" Bndhose Clamp, 3.56"-4.50"	2	9464
W	Hose Clamp, 4.75-5.50"	1	103-BLO-8020N
X	Hose Clamp, 3/4"	2	4093-5
Y	Hose; 5/32"ID X 20"L	1	5-3020
Z	Element Parts Kit 5.00 X 7" DSL Oval Dry	1	21-2277DK
AA	Adapter; Filter	1	5-1051
AB	Screw; Set M6X1X25	1	1-1018

Kit Illustration



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. Remove the engine cover by lifting up on the front and pulling it forward.



b. Disconnect the PCV line from the resonator.



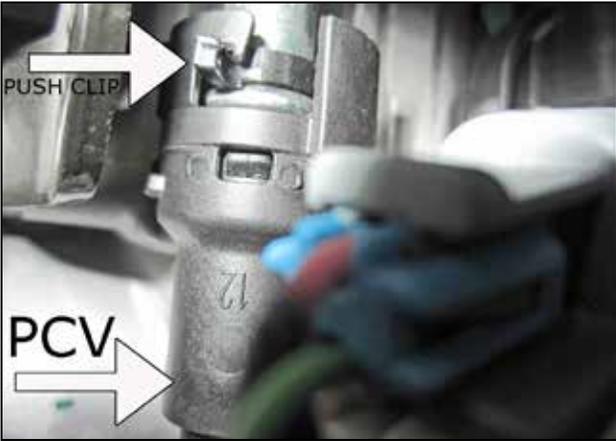
c. Loosen the hose clamp at the throttle body.



d. Loosen the hose clamp at the air box neck.



e. Unclip the radiator hose from the intake tube.



g. Release the PCV line from the engine by rotating it to the right and pushing the clip to the side.



i. Unplug the filter minder sensor.



f. Remove the intake tube and resonator.



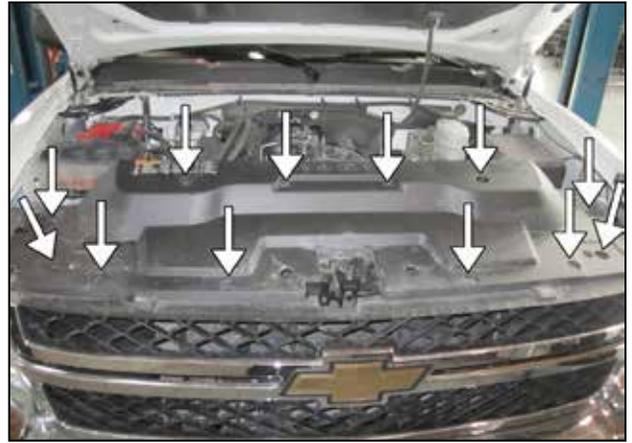
h. Unplug the MAF sensor.



j. Remove the air box from the vehicle by firmly lifting up to disengage its clips.



k. Remove the air box tray by removing the 4 M6 bolts.



l. Remove the 12 plastic clips securing the radiator support cover.



m. Remove the cover.



n. Locate the air deflector behind the grill on the passenger side of the radiator.



o. Remove the first top clip as shown.



p. Remove the second top clip.



q. Remove the final clip at the bottom, then remove the air deflector.



r. Remove the MAF sensor from the air box.



s. Remove the filter minder sensor from the air 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 the provided coupler (5-402) and 2 #64 clamps (9464) onto the throttle body.



c. Install the pipe bracket (32-3079) onto the AEM® air box (9-0390-1) using the supplied M6 bolts (1-2065) and washers (1-3016).



d. Place the hose (5-3020) on the filter minder adapter (2-604).



e. Feed the hose (5-3020) through the hole and mount the adapter (2-604) to the air box (9-0390-1) using 2 M6 bolts (1-2038).



f. Install the filter minder sensor onto the adapter using 1 M6 bolt (1-2038).



g. Install the rubber edge trim (8-4018) onto the AEM® air box (9-0390-1) as shown.



h. Install the AEM® air box (9-0390-1) into the vehicle.



i. Secure the AEM® air box (9-0390-1) using the 4 supplied M6 bolts (1-2038) and washers (08160).



j. Drill a 1/4" hole in the filter cap of the air filter (21-2277DK), below the corner of the "A" for the filter minder grommet.
NOTE: Be sure to clean out any shavings from the inside of the filter.



k. Install the grommet (784631) and 90 deg. fitting (8-152) into the air filter's filter cap as shown.



l. Install the filter adapter (5-1051) and #80 hose clamp (103-BLO-8020N) on the air filter (21-2277DK) as shown.



m. Install the MAF sensor in the AEM® intake tube (9-0402) with the two supplied M4 screws (1-2105).



n. Attach the supplied rubber mount to the set screw supplied and install it 3/8" away from the rubber and then thread it into the AEM® intake tube (9-0402).



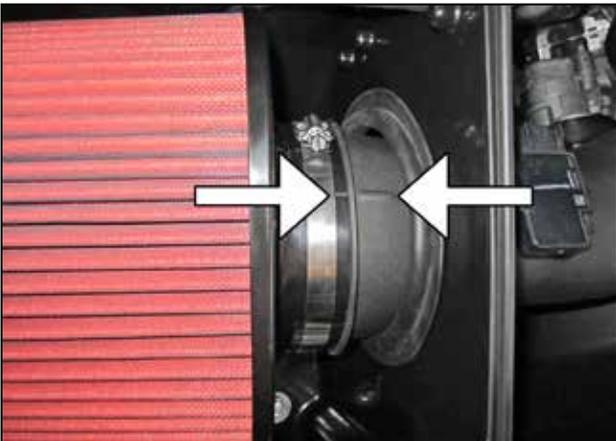
o. Install the supplied grommet (784642) into the AEM® intake tube (9-0402).



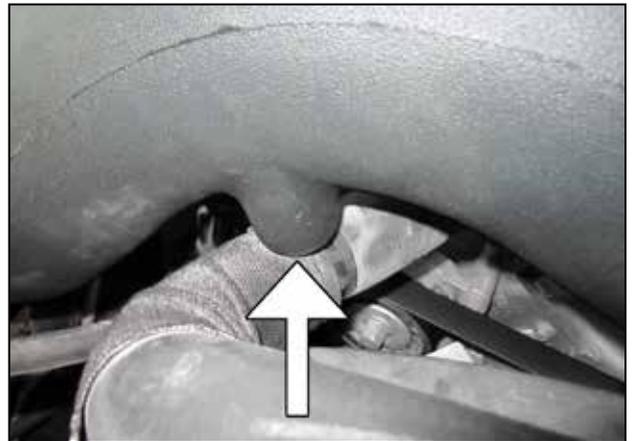
p. Install the AEM® intake tube (9-0402) as shown.



q. Attach the filter minder hose (5-3020) to the 90° fitting (8-152).



r. Install the air filter assembly onto the intake tube (9-0402). Ensure the notch on the air filter adapter (5-1051) is aligned with the marking on the intake tube (9-0402).



s. Insert the radiator hose clip into the mount of the intake tube (9-0402).



t. Install the rubber mount (1228599-1), washer (08160) and M6 nut (444.460.04) onto the bracket. Align for best fit and tighten the bracket bolts and rubber mount.



u. Tighten the hose clamp (9464) at the throttle body.



v. Assemble the 3/8" hose (5-1012), plastic connector (8-125), and two hose clamps (4093-5) as shown.



w. Push the plastic connector (8-125) into the grommet installed in the AEM® intake tube. Connect the other end of the hose (5-1012) to the PCV line on the engine, tighten both hose clamps (4093-5).



x. Align for best fit and tighten all hose clamps and hardware.



y. Install the AEM® air box lid (20-8514) using the 4 M6 bolts (1-112) and nylon washers (1-3001).



z. Reconnect the MAF air flow sensor and filter minder sensor.



aa. Install the engine cover and radiator support cover.

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 the negative battery terminal and start the 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. AEM Induction Systems requires cleaning the intake system's air filter element every 100,000 miles. When used in dusty or off-road environments, our filters will require cleaning more often. We recommend that you visually inspect your filter once every 25,000 miles to determine if the screen is still visible. When the screen is no longer visible some place on the filter element, it is time to clean it. To clean, purchase our Synthetic air filter cleaner, part number 99-0624 and follow the easy instructions.
- 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.