



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

## **INSTALLATION INSTRUCTIONS**

### **PART NUMBER:21-9227DS**

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2011-2012 Ram 2500 L6 6.7L Diesel C.A.R.B. E.O. D-670-14  
2011-2012 Ram 3500 L6 6.7L Diesel C.A.R.B. E.O. D-670-14

INTAKE SYSTEMS FOR VEHICLES  
LISTED ARE 50 STATE LEGAL. SEE  
AEMINTAKES.COM FOR CARB STATUS ON  
EACH PART FOR A SPECIFIC VEHICLE.

## PARTS LIST

Description	Qty.	Part Number
A AIR BOX;UPPER,21-9227,2012 DODGE 6.7L 2500	1	9-0404
B AIR BOX;LOWER,21-9227,2012 DODGE 6.7L 2500	1	9-0418
C INLET TUBE, 07 RAM 6.7L DIESEL	1	9-82211
D EDGE TRIM, 12"	2	8-4012
E INSERT,DIESEL A/F ASSY 5"	1	5-2279
F AEM DRYFLOW FILTER	1	21-2288DK
G BRACKET; RAM 6.7L PIPE/HS	1	32-3057
H PLUG	1	09711
I CLAMP #80	1	KITHS80
J MOUNT, RUBBER 1" X 6MM	2	1228599
K BOLT; HEX/FLANGE M6-1.0 X 12	2	1-2110
L WASHER; 1"D X 1/4 HOLE FENDER	4	08160
M NUT; M6 HEX SERRATED	2	444-460-04
N BOLT;HEX/FLANGE M-6-1 X 20	6	1-2038
O MOUNT, PLASTIC AIRBOX	2	
P BOLT; HEX M8-1.25 X 30 FULL	1	1-2080
Q BOLT; SOCKET M4-.7 X 16MM	1	1-2097
R BOLT; SOCKET M4-0.7 X 8MM	2	1-2105



**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. 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. Unplug the factory MAF and IAT Sensor connectors.



b. Pull out the wire harness clip on the air box for the connectors.



c. Remove the 13mm bolt securing the air box base to the radiator support.



d. Loosen the hose clamp securing the factory inlet hose to the turbocharger.



e. Lift up on the air box and remove the intake system from the vehicle.



f. Remove the 13mm bolt on the fan shroud.



g. Remove the MAF sensor and IAT sensor from the OEM intake system.

### 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. Using the bolts (1-2097 & 1-2105), secure the MAF and IAT sensors to the AEM intake tube as shown.



c. Install the filter insert(5-2279) on the intake tube. Do not use (5-1068) that is included the 21-2288DK air filter kit.



d. Now install the AEM filter and hose clamp (KITHS80) on the intake tube as shown.



e. Install the intake tube bracket(32-3057) on the AEM intake tube(9-82211) as shown using the provided 6mm bolts(1-2110).



f. Place the AEM mounts(8-186-1) in the OEM mount locations.



g. Install the rubber edge trim(8-4012) on the lower air box.



h. Install the 2 rubber mounts(1228599) on lower air box(9-0418).



i. Set the lower AEM air box(9-0418) in place and squeeze the OEM foam as shown, to allow for the air box to sit in place. Install the 6mm bolt(1-2038) and 1" washer(08160).



j. Install the other 6mm bolt(1-2038) with the 1" washer(08160).



k. Install the 8mm bolt(1-2080) through the front of the air box into the radiator support; you may need to adjust the fan shroud to get the bolt in.



l. Now tighten the 8mm bolt.



m. Now tighten the two lower 6mm bolts



n. Install the AEM Intake tube in the turbo coupler and air box. Plug in MAF and IAT sensors.



o. Now install the 6mm nuts(444-460-04) and 1" washers (08160) on the rubber mounts holding the intake bracket to the air box.



p. Now tighten the nuts on the bracket.



q. Install the rubber grommet (09711) into air box lid(9-0404).



r. Now install the rubber edge trim(8-4012) on the upper air box lid.



s. Make sure the filter has proper clearance and tighten the hose clamp.



t. Set air box top(9-0404) in place.



u. Install and tighten the four 6mm bolts(1-2038) for the air box lid.



v. Adjust the intake tube for maximum clearance and tighten the hose clamp on the turbo coupler to the AEM intake tube.



Stock Intake system installed



AEM Intake system installed



#### 4. 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 window cleaner to clean your powder coated AEM® intake tube.

**NOTE: DO NOT USE aluminum polish on powder coated AEM® intake tubes**

#### 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.

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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