



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

## INSTALLATION INSTRUCTIONS

### PART NUMBER: 21-9113

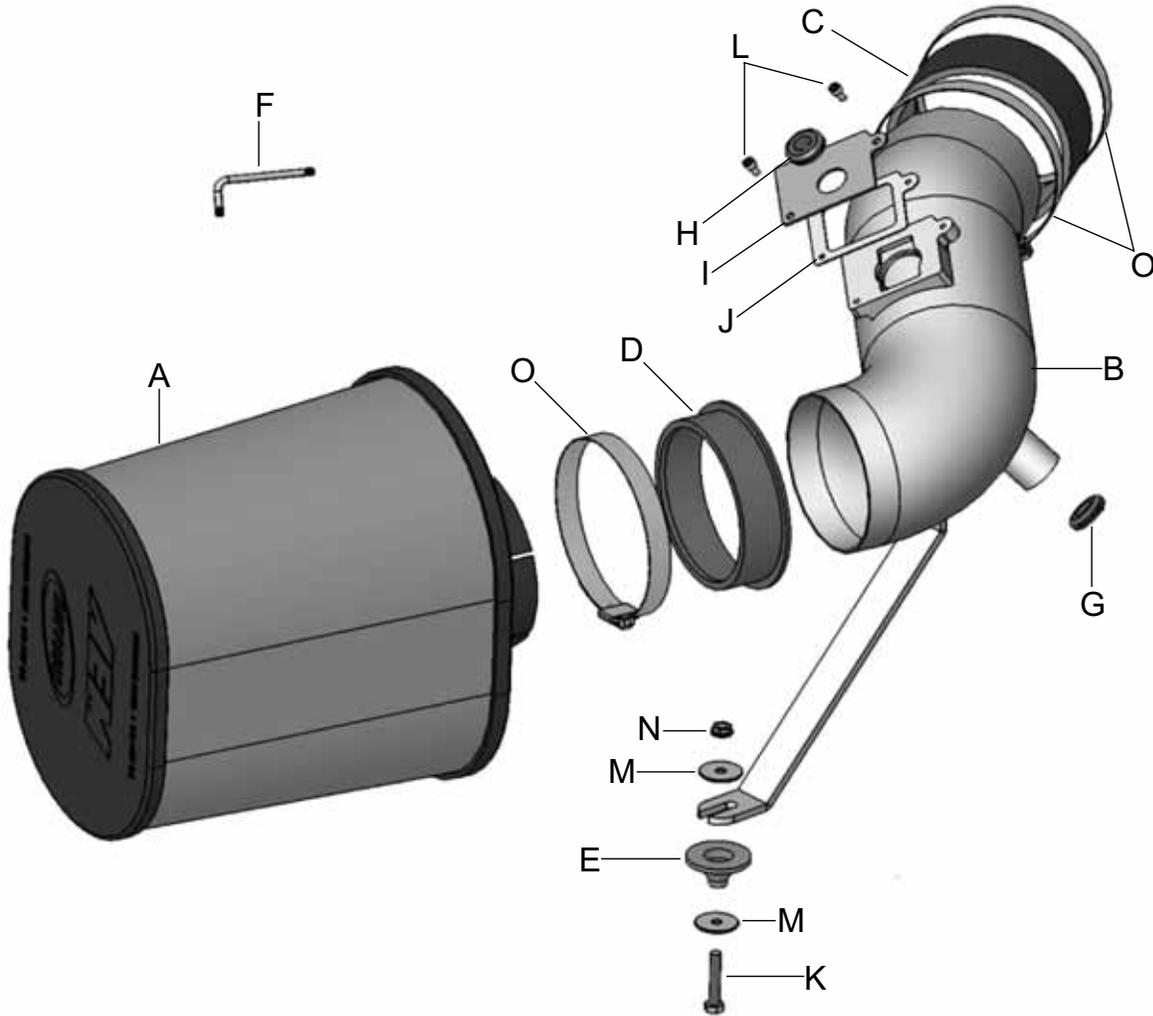
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2004-2006	FORD	F250 Harley Davidson Super Duty	V8-6.0L DSL	C.A.R.B. E.O. D-392-29
2004-2006	FORD	F250 Super Duty	V8-6.0L DSL	C.A.R.B. E.O. D-392-29
2004-2006	FORD	F350 Harley Davidson Super Duty	V8-6.0L DSL	C.A.R.B. E.O. D-392-29
2004-2006	FORD	F350 Super Duty	V8-6.0L DSL	C.A.R.B. E.O. D-392-29
2004-2006	FORD	F450 Super Duty	V8-6.0L DSL	C.A.R.B. E.O. D-392-29
2004-2006	FORD	F550 Super Duty	V8-6.0L DSL	C.A.R.B. E.O. D-392-29
2004-2005	FORD	Excursion	V8-6.0L DSL	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	Element Parts Kit 4.00x 9" DSL Oval Dry	1	21-2259DK
B	Inlet Pipe, 03-06 Ford 6.0L	1	2-81131
C	Hose, Silicone 4.00x2" Black	1	5-402
D	Insert, Diesel A/F Assy 4"	1	5-2259
E	Stand, Aluminum	1	2-670
F	Wrench; Torx T20 T/R, L-Key	1	69801
G	Grommet, 1/2" 3/32	1	784646
H	Grommet, 7/16"	1	784632
I	Block Off Plate, 2-688 MAF	1	2-783
J	Gasket, Block Off Plate	1	2-7831
K	Bolt, Hex M6-1 X 35mm	1	1-2002
L	Bolt, Socket M4-.7 X 8mm	2	1-2105
M	Washer; 1"D X 1/4 Hole Fender	2	08160
N	Nut, M6 Hex Serrated	1	444.460.04
O	1/2" Bnd. Hose Clamp, 3.56"-4.50"	3	9464



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. Stock intake system. Unplug the wiring harness from the inlet air temperature (IAT) sensor or mass air flow (MAF) sensor. All vehicles have one or the other.



b. Loosen the hose clamps securing the flexible inlet hose between the turbo inlet and the air filter housing. Remove the hose.



c. Unplug the wiring harness from the air filter restriction gauge. Remove the gauge from the rear of the air filter housing.



d. Unclasp the retaining clips holding the back side of the air filter housing together. Remove the rear side of the air filter housing by lifting up and pulling it out of the engine bay.



e. Pull up and remove the air filter housing from the engine bay.



f. Remove the factory IAT sensor or MAF sensor from the stock air filter housing.

### 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. Before installing intake pipe be sure to check for packaging material in the intake pipe.



c. Factory air box system removed.



d. On vehicles with a MAF sensor, install the sensor into the intake pipe using the two factory bolts removed in step 2f). If your vehicle is equipped with an IAT, skip to step 3e).



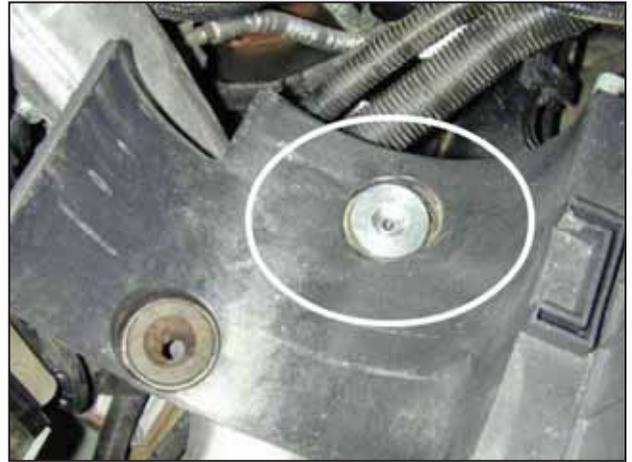
e. On vehicles with an IAT sensor, install provided adapter plate onto the intake pipe using the two supplied bolts. Install the supplied grommet into the plate.



f. Install the IAT sensor into the grommet on the adapter plate as shown.



g. Install the silicone coupler onto the turbo inlet and secure using two #64 hose clamps.



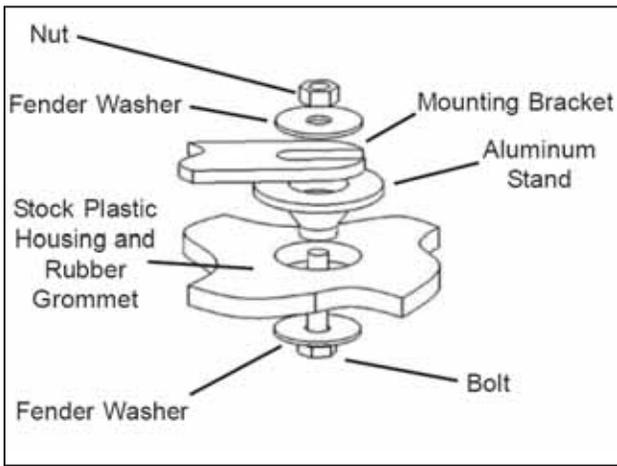
h. Install the billet aluminum stand into the rear rubber mount where the factory air box was removed.



i. Install the intake pipe into the coupler on the turbo inlet. Align the intake pipe mounting bracket with the previously installed aluminum stand. Use a #64 hose clamp to secure.



j. Install the supplied M6 washer and bolt through the bottom of the aluminum stand. Secure the bolt using another M6 washer and serrated nut as illustrated in step 3k.



k. Diagram for mounting bracket. Once aligned properly, fully tighten the nut.



l. Install the supplied air filter adapter by stretching it over the filter end of the intake pipe.



m. Slide the hose clamp onto the air filter's neck and attach the air filter assembly onto the filter adapter. Ensure the air filter is completely seated onto the adapter and the hose clamp is aligned with the filter adapter's lip. Once the hose clamp is properly aligned, secure the hose clamp, ensuring the filter neck's tabs compress and engage.



n. Ensure the air filter does not make contact with any part of the vehicle and has adequate clearance.



o. Depending on application, connect the wiring harness plug into the MAF or IAT sensor. Rotate the oil dipstick to allow sufficient clearance.



p. Plug the air filter restriction gauge into the wiring harness. Ensure the wiring harness will not make contact with any components that will get HOT.



Factory air box system installed



AEM® intake system installed

#### 4. Reassemble Vehicle

- 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.
- Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them.
- Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened.
- Reconnect the negative battery terminal and start engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

#### 5. CARB Sticker Placement

- 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 state may vary.

## 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 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
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### 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.