



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

## INSTALLATION INSTRUCTIONS

### PART NUMBER: 21-8114

---

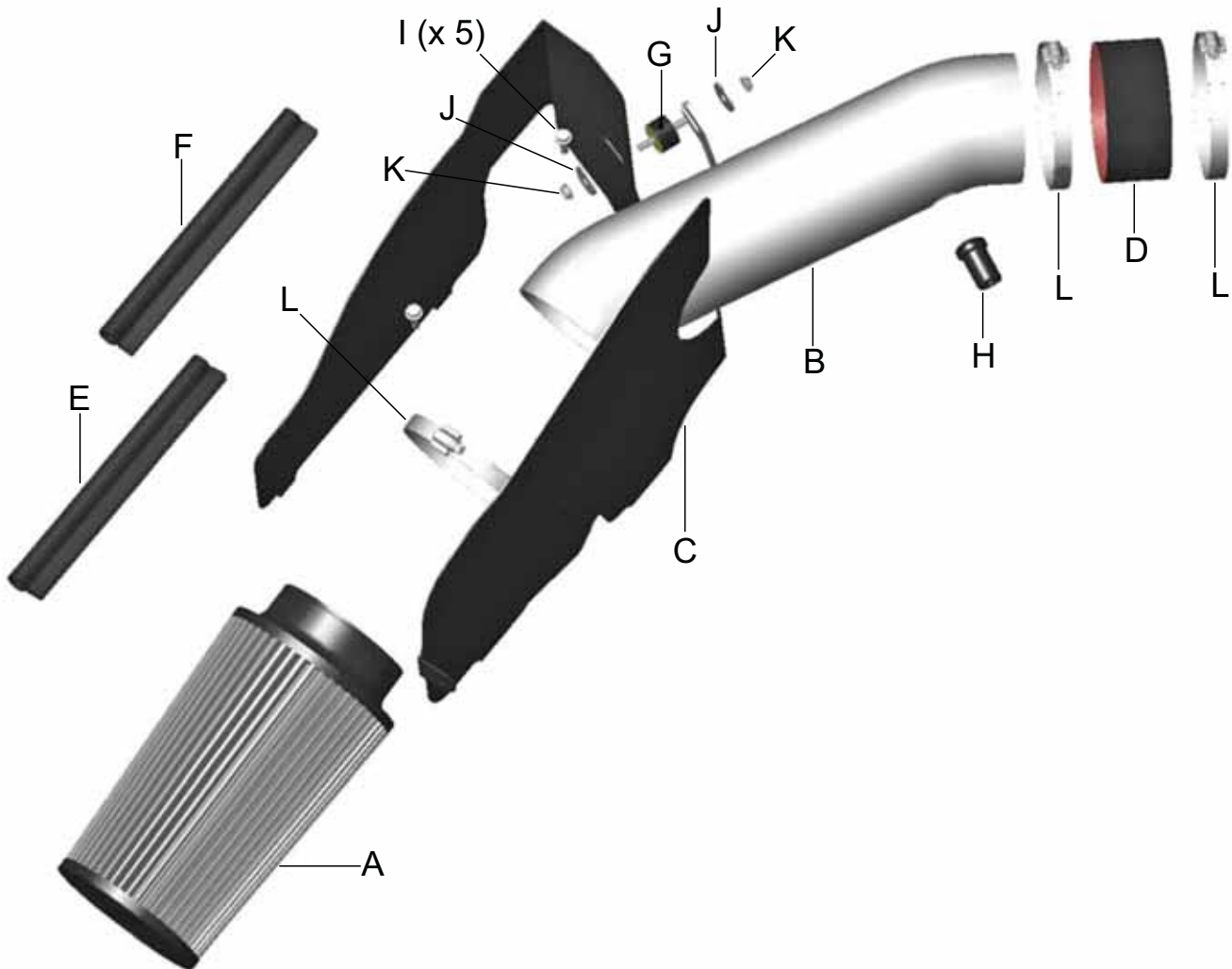
2000-2003	FORD	Excursion	V8-7.3L DSL	C.A.R.B. E.O. # D-670-6
1999-2003	FORD	F-250 Super Duty	V8-7.3L DSL Build date of 12/7/98 or later	C.A.R.B. E.O. # D-670-6
1999-2003	FORD	F-350 Super Duty	V8-7.3L DSL Build date of 12/7/98 or later	C.A.R.B. E.O. # D-670-6

**This kit only works on intercooler equipped trucks with a build date of 12/7/98 or later.**

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

## PARTS LIST

	Description	Qty.	Part Number
A	Air Filter Assy., 4.00x 9 X1" Dry Ele.	1	21-3059DK
B	Inlet Pipe	1	2-81141
C	Heat Shield	1	20-8114
D	Hose, Silicone 4.00x2" Black	1	5-402
E	Edge Trim, 18"	1	8-4018
F	Edge Trim, 12"	1	8-4012
G	Mount, Rubber 5/8" X 6mm	1	1228598
H	Adapter, Filter Minder Gauge	1	8-164
I	Bolt, Hex/Flange M6-1 X 20	5	1-2038
J	Washer, 6mm Soft Mount	2	08160
K	Nut, M6 Hex Serrated	2	444.460.04
L	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. Loosen the hose clamps securing the inlet hose to the turbo inlet and the factory air filter housing.



b. Unclasp the 1st clip holding down the top of the air box.



c. Unclasp the 2nd clip holding down the top of the air box. Remove the air box lid.



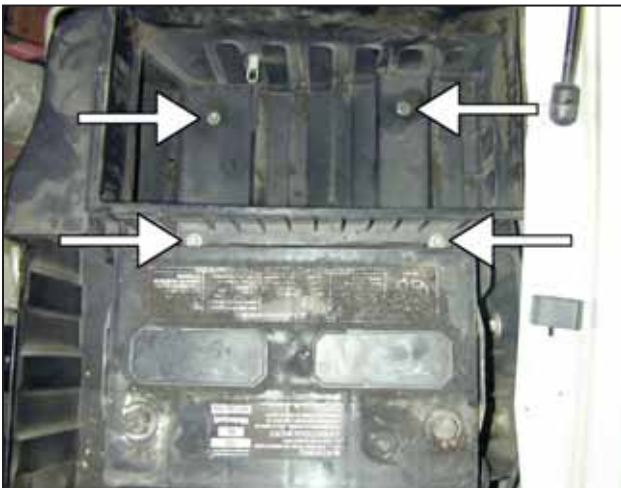
d. Remove the stock air filter from the air filter housing.



e. Unclip the front side of the battery box cover as shown.



f. Unclip the passenger side of the battery box cover. Remove the battery box cover by gently lifting it straight up and out of the engine bay.



g. Loosen and remove the four bolts securing the lower air filter housing to the housing and battery mount.



h. Remove the inlet air temperature (IAT) sensor from the air filter housing by rotating it 90 degrees and gently pulling it out.



i. Unclip the passenger's side snap on the lower air filter housing. Remove the lower air filter housing.



j. With the air filter housing removed, locate the upper bolt securing the fuse block mount to the driver's side fender. Remove the bolt as shown.



k. Remove the air filter restriction meter from the air filter housing by gently pulling it out of the grommet.



l. Stock air box system removed.

### 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 coupler (5-402) onto the turbo inlet and secure using two #60 hose clamps.



c. Install the previously removed IAT sensor into the small slotted nipple on the inlet pipe. Align the IAT sensor tabs with the slots of the nipple and rotate the IAT 90 degrees to lock it in place.



d. Install the nipple onto the intake pipe (use soapy water to aid installation). Insert the nipple into the pipe at an angle and rotate it until the groove engages the pipe. Install the previously removed air filter restriction gauge into the nipple.



e. Loosely install the supplied rubber mount onto the heat shield slot using the supplied M6 nut and washer. The rubber stud should be facing outward as shown.



f. Install the heat shield. Ensure the heat shield is placed behind the OEM plastic housing as shown.



g. Secure the heat shield into the engine bay, aligning the five mounting tabs with the corresponding bolt hole locations. Install and fully secure the five OEM mounting bolts that were removed from steps 2g and 2j.



h. Install the intake pipe into the coupler on the throttle body, while also aligning the intake bracket with the rubber mount on the heat shield. Position the intake pipe with a slight angle so the IAT sensor can be accessed.



i. Plug the IAT sensor harness into the sensor as shown. Route the IAT sensor harness under the heat shield and through the notch on the bottom of the heat shield.



j. With the intake pipe still angled in an upward position, install the air filter with the supplied #64 hose clamp. Insert the air filter into the heat shield nose first, then rotate the intake pipe and air filter downward until they are properly aligned.



k. Once the intake pipe is properly aligned with the air filter, install the remaining M6 washer and nut to secure the pipe's bracket to the rubber mount. Align the intake pipe again and fully tighten the rubber mount to the heat shield.



I. Double check the alignment of the intake pipe, air filter, and heat shield to ensure proper fitment and clearance. Once proper fitment has been achieved, tighten the hose clamps on both the coupler and the air filter. Install the supplied edge trim onto the top edges of the heat shield. Trim excess if 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 terminal 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. 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

### 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.