



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

## INSTALLATION INSTRUCTIONS

**PART NUMBER: 21-8301**

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1997-2002

JEEP Wrangler L4-2.5L

C.A.R.B. E.O. # D-392-21

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

## PARTS KIT

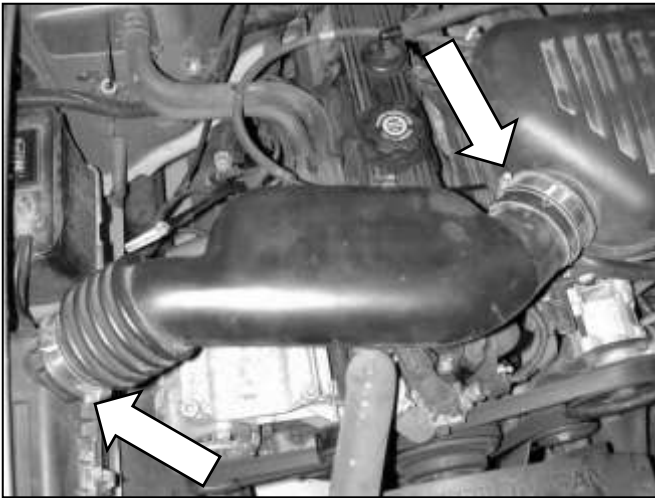
Description	Qty.	Part Number
Air Filter Assy. 3.00 X 9" Dry Ele.	1	21-2039DK
Heat Shield	1	20-8301
Inlet Pipe	1	2-83011
Hose, Adapter 2.50/3.0" X3"	1	5-253
Hose; 1/2"ID X 11"L	1	5-5011
Edge Trim, 18"	1	8-4018
Mount, Rubber 1" X 8mm	1	1228560
Zip Tie, 8" Tree Push-Mnt.	1	1-127
Washer, 8mm Soft Mount	4	559960
Nut, M8 Hex Serrated	3	444.460.08
Bolt, Hex/Flange M8-1.25 X 20	1	1-2025
1/2" Bnd. Hose Clamp, 2.90"-3.75"	1	9452
1/2" Bnd. Hose Clamp, 2.56"-3.50"	1	9448
1/2" Bnd. Hose Clamp, 2.15-3.00"	1	9440
Hose Clamp, 1"	2	99024.032

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.

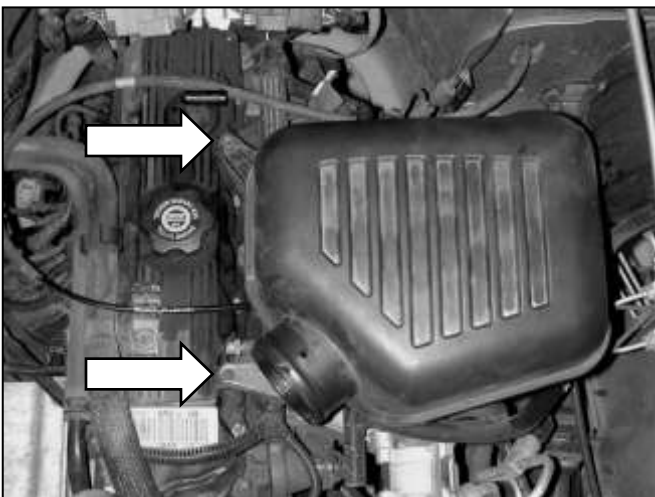
### 2. Removal of stock system



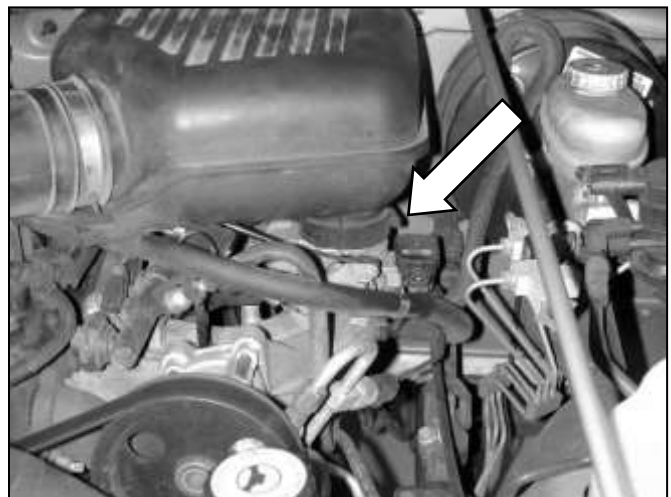
a. Loosen the hose clamps on both sides of the air inlet tube. Remove the tube from the vehicle.



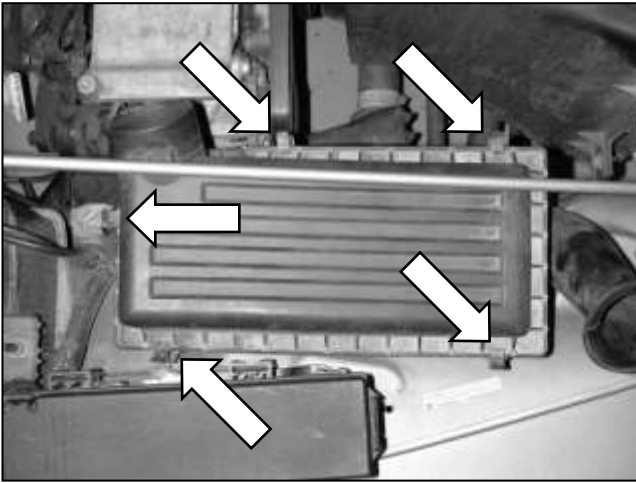
b. Remove the breather hose from the backside of the resonator box.



c. Remove the two bolts securing the resonator box to the valve cover.



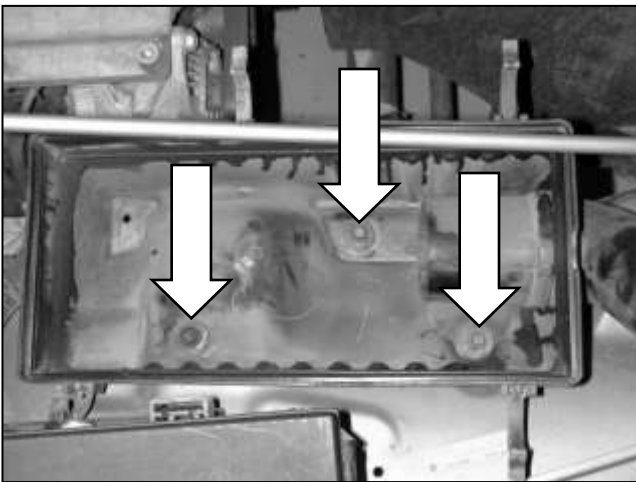
d. Loosen the hose clamp on the throttle body. Remove the resonator box from the engine bay.



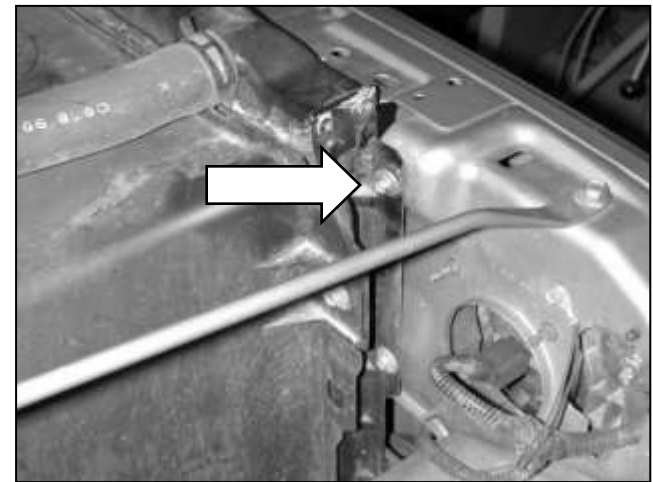
e. Remove five metal clips securing the top of the filter box to the lower filter box. Remove the filter box top from the vehicle.



f. Remove the air filter element from the lower filter box.



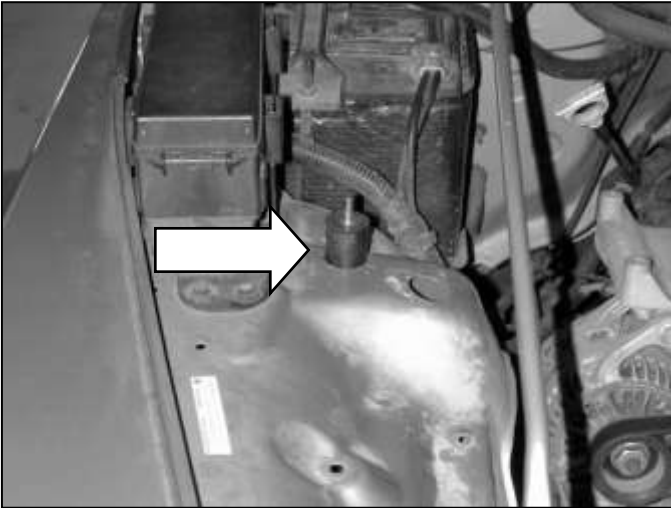
g. Remove the three bolts securing the lower filter box. It may be necessary to hold the nuts on the tire side of the fender to prevent them from turning. Remove the lower filter box and retaining nuts from vehicle.



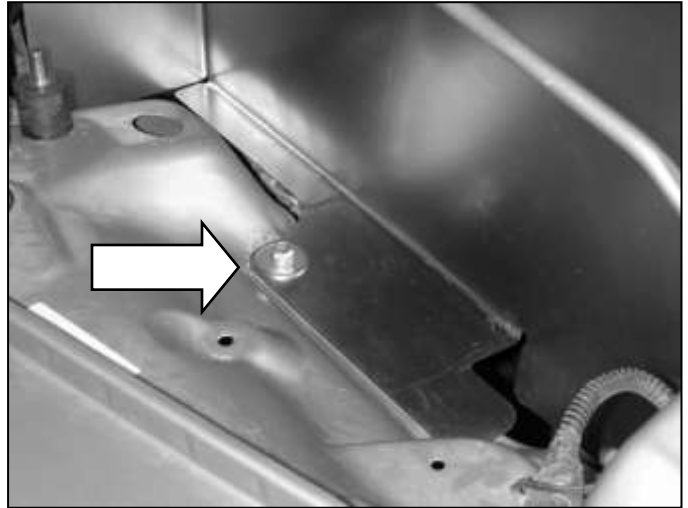
h. Remove the upper, passenger-side radiator mounting bolt. This bolt will be reused to mount the AEM<sup>®</sup> heat shield.

### 3. Installation of AEM<sup>®</sup> intake system.

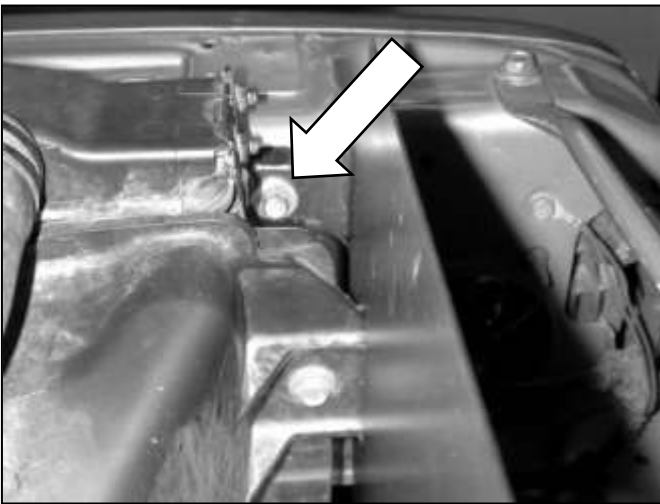
- a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.



b. Install the rubber soft mount in the fender well using the supplied washer and M8 locknut.



c. Install the AEM<sup>®</sup> heat shield and loosely secure using the supplied M8 bolt, locknut and two washers.



d. The front mounting tab will line up with the radiator mounting bolt removed in step 2h. Use the original bolt to secure heat shield.



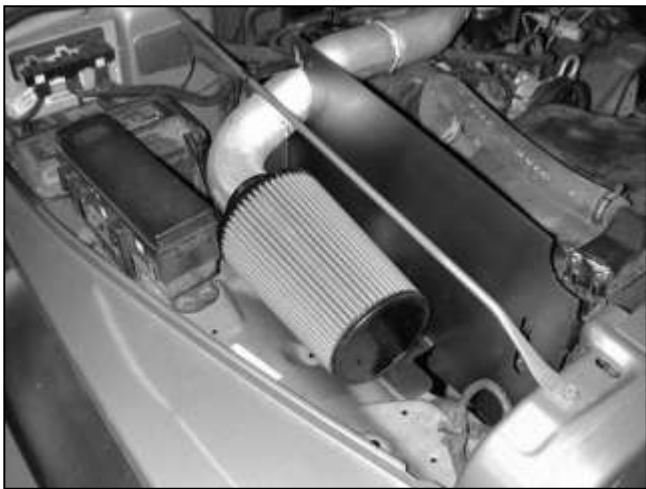
e. Use the supplied mounting zip tie to secure the upper heat shield tab to the radiator support rod. Make sure the locking head of the zip tie is on the engine side if the support rod.



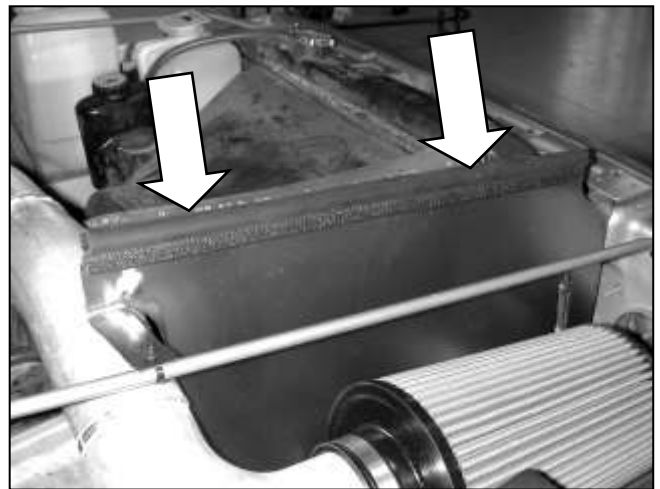
f. Install the small end of the silicone coupler on to the throttle body and secure with the #40 hose clamp. Insert the AEM<sup>®</sup> inlet tube in to the silicone coupler and loosely secure with the #48 hose clamp.



g. The bracket on the end of the AEM<sup>®</sup> inlet tube will line up with the rubber mount installed in step 3b. Loosely secure the bracket with the supplied washer and locknut.



h. Install the AEM<sup>®</sup> air filter on to the end of the AEM<sup>®</sup> inlet tube. Secure with the supplied hose clamp.



i. Install the supplied rubber gasket material to the top of the AEM<sup>®</sup> heat shield. The material may need to be trimmed to length for proper fitment.



j. Install the supplied breather hose between the valve cover and the AEM<sup>®</sup> inlet tube. Secure the hose with the two supplied hose clamps.



Factory air box system installed



AEM<sup>®</sup> 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.

## 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<sup>®</sup> 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.