



Equipped with AEM® *Dryflow™ Filter*  
No Oil Required!

# **INSTALLATION INSTRUCTIONS**

## **PART NUMBER: 21-8305**

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1991-1995 JEEP Wrangler L6-4.0L

C.A.R.B. E.O. # D-670

## PARTS LIST

Description	Qty.	Part Number
Air Filter Assy. 3.00 X 9" Dry Ele.	1	21-2039DK
Inlet Pipe	1	2-83051
Heat Shield	1	20-8305
Elbow, 3.00/2.75 90 Deg.	1	5-492
Hose; 1/2"ID X 13"L	1	5-5013
Zip Tie, 8" Tree Push-Mnt.	4	1-127
Mount, Rubber 1" X 8mm	1	1228560
Rubber Edge Trim 12"	1	102466
Bolt, Hex 1/4-20 X 3/4	2	1-2014
Washer, 8mm Soft Mount	2	559960
Washer, 6mm Soft Mount	4	08160
Nut, M8 Hex Serrated	2	444.460.08
Nut, 1/4-20 Nylock	2	1-2074
1/2" Bnd. Hose Clamp, 2.90"-3.75"	1	9452
1/2" Bnd. Hose Clamp, 2.31-3.25"	1	9444
1/2" Bnd. Hose Clamp, 2.56"-3.50"	1	9448
Hose Clamp, 1 1/16" Narrow	2	4093-6

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. Factory air box system installed.



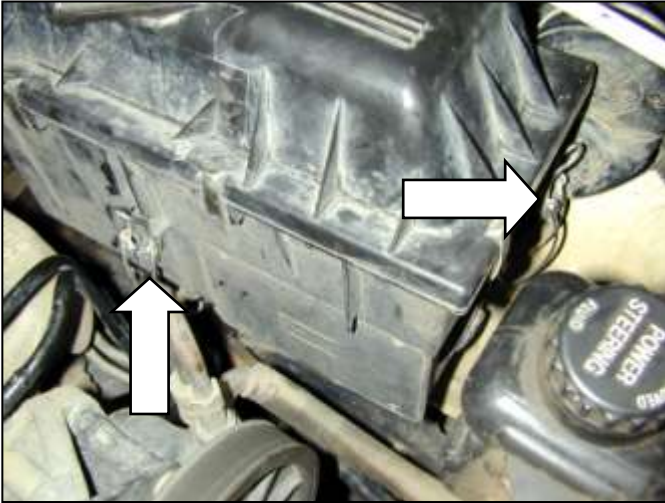
b. Loosen the plastic hose clamps on the rubber intake tube attached to the throttle body. Do this by pulling the two plastic tabs on the hose clamp apart. Disconnect the intake tube from the throttle body.



c. Disconnect the charcoal box breather hose from the air filter housing.



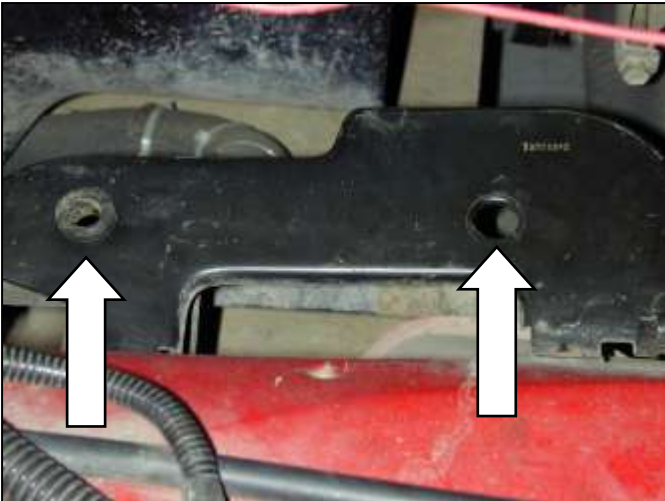
d. Remove the breather hose connecting the valve cover to the air filter housing



e. Un-clip the three hooks holding the air filter housing to the chassis. Lift the air filter housing and intake tube from the vehicle.



f. Remove the inlet air duct from below the headlight housing.



g. Remove the two rubber grommets from the air filter housing mount.



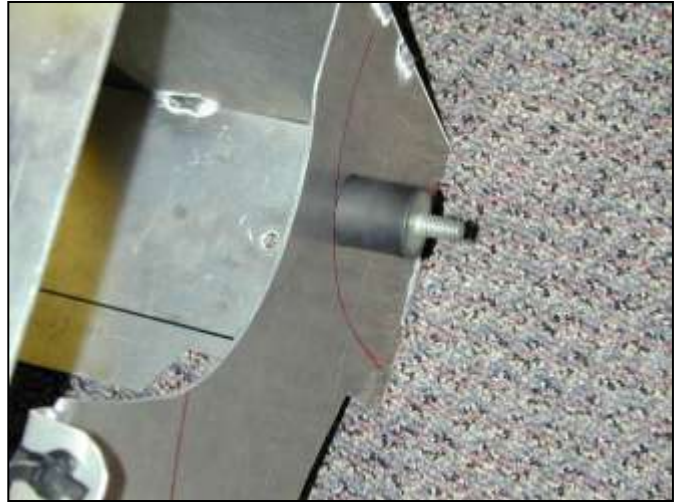
h. Loosen the nuts on the radiator support brace and lift brace off of mount. Rotate the brace out of the engine compartment.

### 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 rubber elbow with the smaller, 2.5" side on the throttle body. Attach elbow using the supplied #44 Hose clamp.



- c. Prepare the heat shield for installation by first installing the rubber mount into the slot as shown.



- d. Install the plastic zip-tie mounts by pressing them into the holes on the heat shield tab and cover.



- e. Install rubber edge trim onto heat shield and trim to fit.



f. Install the heat shield by moving the radiator support bracket out of the way and aligning the holes in the bottom of the heat shield and stock air box bracket.



g. Install the two bolts, two nuts, and four washers to secure the bottom of the heat shield. Tighten until nut is snug but do not over tighten.



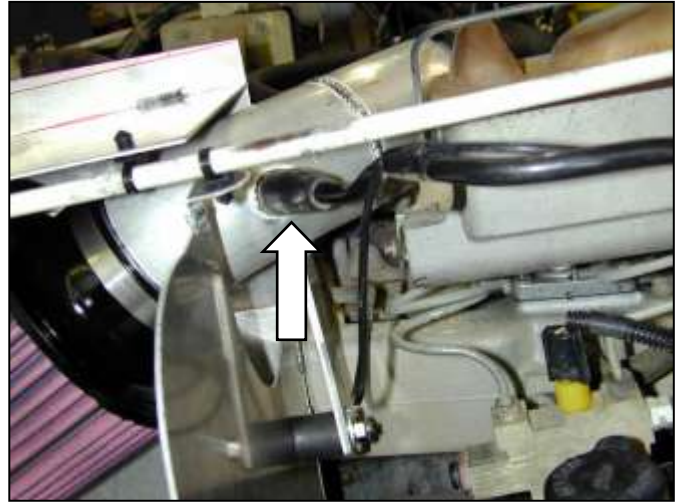
h. Ensure the intake pipe is free from debris. Install the AEM® intake pipe into the elbow on the throttle body. This is to be installed with the small bend towards the elbow.



i. Align the intake pipe bracket with the rubber mount on the heat shield. Install the washer and nylok nut onto the rubber mount to capture the bracket.



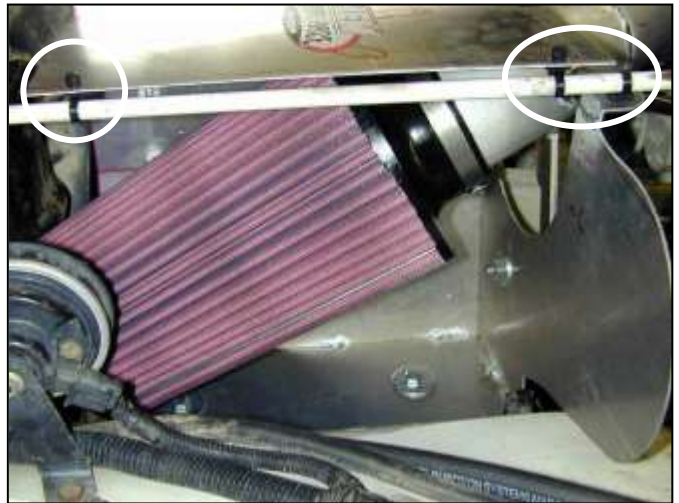
j. Install the AEM<sup>®</sup> air filter into the space behind the headlight. Push the filter over the inlet pipe until the stop in the filter is reached, and then install one hose clamp to secure the filter onto the inlet pipe.



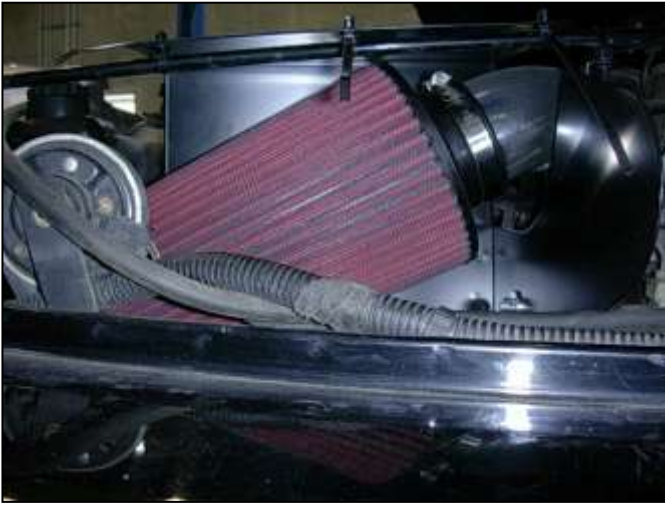
k. Attach the factor charcoal box breather line to the lower intake pipe by sliding it over the nipple.



l. Install the supplied 1/2" breather hose between the intake pipe nipple and the valve cover elbow using two 1-1/16" hose clamps.



m. Swing the radiator support brace back to its stock location and secure. Wrap the heat shield zip-tie mounts around the brace and secure the heat shield to the brace.



n. Ensure that the air filter is not touching any part of the vehicle. Position the AEM<sup>®</sup> intake system for best fitment. Be sure that the pipe or any other component is not in contact with any part of the vehicle. Tighten the hose clamps at the throttle body. Tighten the nut on the mounting bracket. Re-adjust pipe if necessary. Install rubber edge trim to the top of the heat shield



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<sup>™</sup> 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).**