



Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

PART NUMBER:21-8310

2006 JEEP

Commander V8-4.7L

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

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

PARTS LIST

Description	Qty.	Part Number
Air Filter Assy. 3.50 X 9" Dry Ele.	1	21-2049DK
Inlet Pipe, Commander 4.7L	1	2-83101
Heat Shield, Commander 4.7L	1	20-8310
Hose, Adapter 3.50/3.25x2.50	1	5-352
Grommet, 1/2"	1	784634
Mount, Rubber 1" X 8mm	1	1228560
Edge Trim, 6"	1	8-4006
Edge Trim, 7"	1	8-4007
Rubber Edge Trim 15"	1	8-3015
Stand, Aluminum	1	2-670
Nipple,.375 OD X .065wL X .75"	1	7-7007-1
Bolt, Hex M6-1 X 35mm	1	1-2002
Bolt, Hex 1/4-20 X 1 3/4	1	1-2072
Bolt, Hex/Flange M6-1 X 40	1	1-2075
Washer, M6 X 12mm OD SS	1	1-3016
Washer, 6mm Soft Mount	2	559999
Washer, 8mm Soft Mount	2	559960
Washer, 1/4 X 1-1/4 Fender	1	1-3027
Washer, 1/4 SAE Flat	1	1-3028
Nut, M6 Hex Serrated	3	444.460.04
Nut, M8 Hex Serrated	2	444.460.08
Nut, 1/4-20 Nylock	1	1-2074
Nut, 1/4-20	1	1-2073
1/2" Bnd. Hose Clamp, 3.31"-4.25"	1	9460
1/2" Bnd. Hose Clamp, 3.15"-4.00"	1	9456
1/2" Bnd. Hose Clamp, 2.90"-3.75"	1	9452
Hose Clamp, 1"	1	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. Disconnect the Inlet Air Temperature sensor.



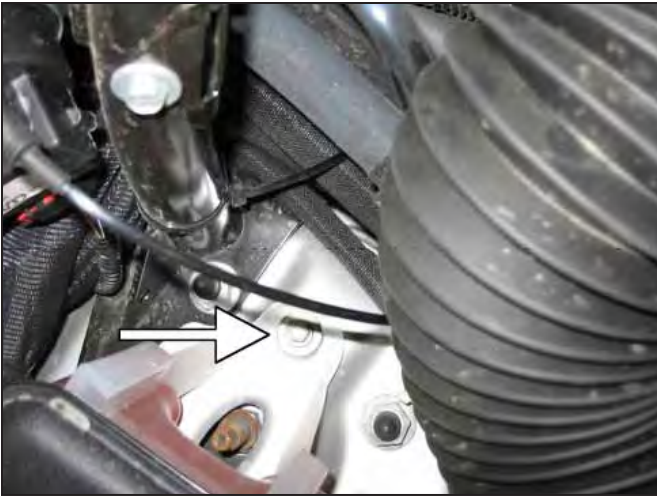
b. Loosen and remove the air box mounting bolt on the passenger side.



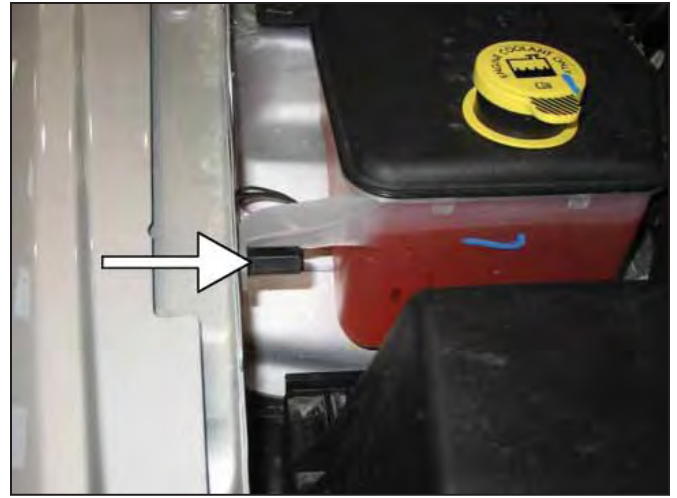
c. Loosen and remove the air box bolt on the driver's side.



d. Disconnect the crankcase breather hose.



e. Loosen and remove the coolant reservoir mounting bolt.



f. Remove fastener.



g. Gently remove the coolant reservoir from its factory location and set aside. Do not disconnect coolant lines.



h. Loosen and remove the air box mounting bolt.



i. Loosen the throttle body hose clamp.



j. Remove push in tabs from the grill. These tabs will be reused.



k. Remove push in tabs from the grill. These tabs will be reused.



l. Remove the grill. Lift the grill up and pull forward.



m. Remove the head light cover. Pull the rear up and back



n. Disconnect the resonator inlet. Pull straight forward.



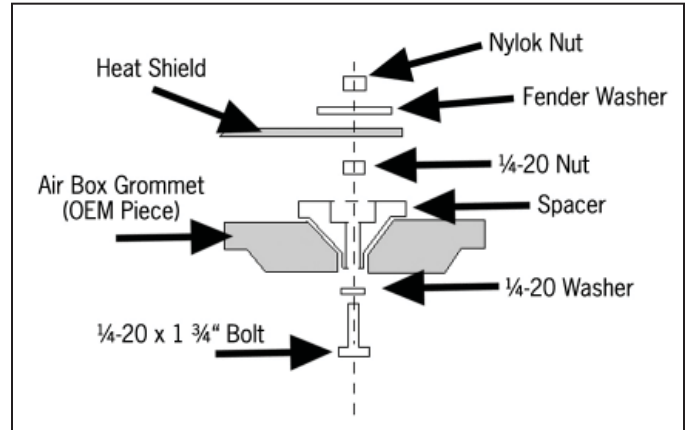
o. Remove the air box assembly.



p. Remove the IAT sensor from the stock air box. Turn counter clockwise.

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. Assemble the heat shield mount to the air box mounting tab. Refer to the following diagram, using the 1/4-20 bolt, washer, spacer, and nut. Reuse the rubber grommet from the air box mounting tab.



c. Remove the o-ring from the sensor.



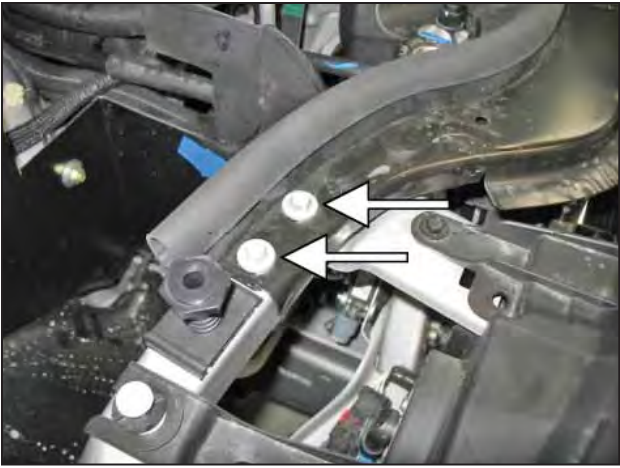
e. Attach the rubber mount to the heat shield as shown. Secure with M8 washer and nut.



d. Loosen and remove the bolts to the hood latch support bracket. These will be reused.



f. Insert heat shield as shown. Align the heat shield mount to the bottom bracket to the heat shield.



g. Insert the heat shield tab underneath the hood latch support bracket. Secure with factory hardware.



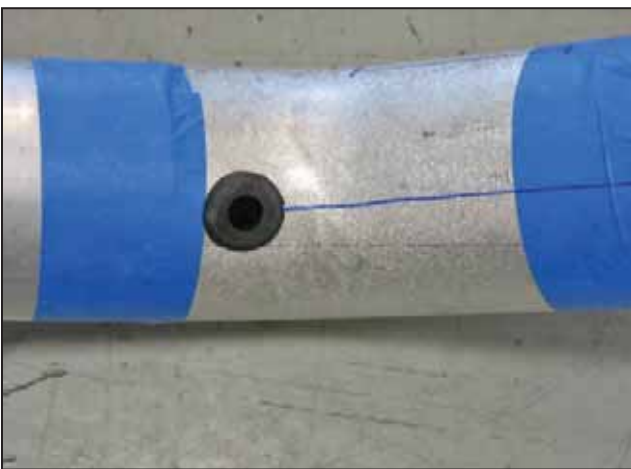
h. Secure the heat shield tab between the fender and the coolant overflow reservoir with M6 washer and nut. Secure reservoir.



i. Attach the coupler to the throttle body. Secure with #52 hose clamp.



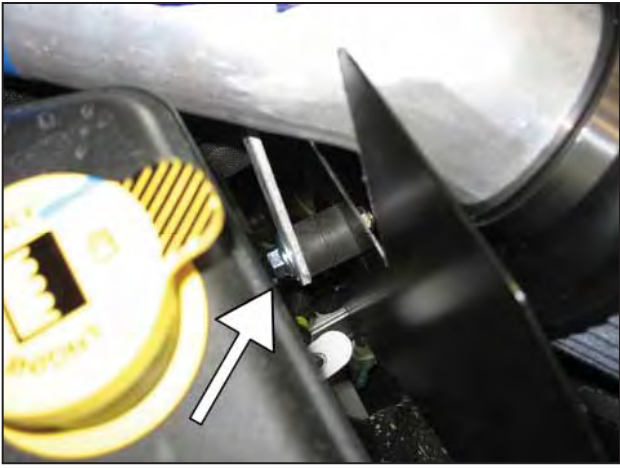
j. Attach the air filter element as shown. Secure with #60 hose clamp.



k. Insert grommet for the IAT.



l. Insert the inlet pipe as shown.



m. Secure the inlet pipe to the rubber mount with M8 washer and nut.



n. Reattach the PCV breather hose and secure with 1" hose clamp.



o. Attach foam gasket to the tops of the heat shield.



p. Insert the IAT and connector as shown.



q. If your vehicle is equipped with cruise control, install the vacuum canister as shown. Use the M6 bolt, washer, nipple and M6 nut provided.



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 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® 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® intake tube.
- c. 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.