



Equipped with AEM® Dryflow™ Filter
No Oil Required!

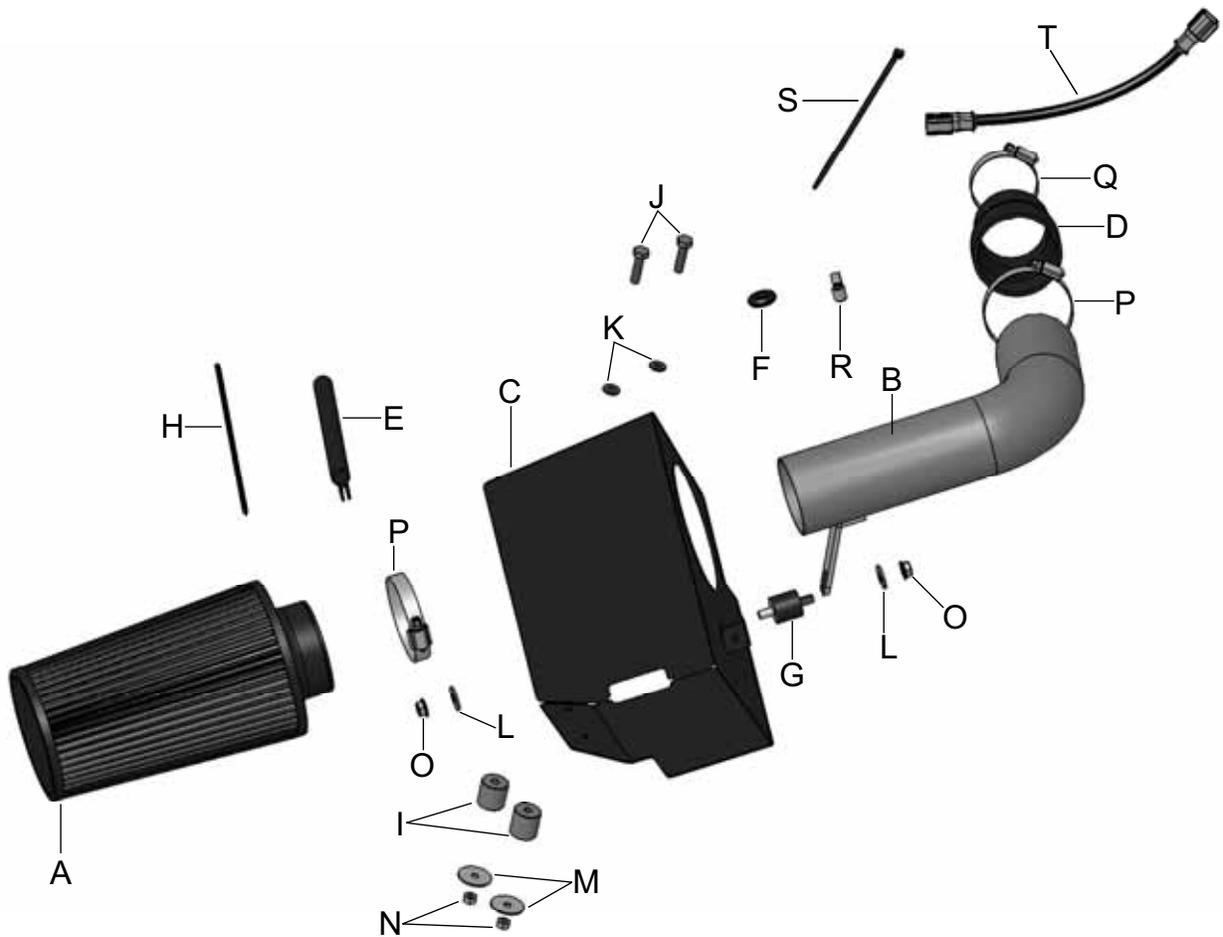
INSTALLATION INSTRUCTIONS

PART NUMBER: 21-8314

2009-2011	JEEP	Wrangler	V6-3.8L	SEE * NOTE
2007-2008	JEEP	Wrangler	V6-3.8L	C.A.R.B. E.O. # D-670

PARTS LIST

	Description	Qty.	Part Number
A	Air Filter Assy. 3.25 X 9" Dry Ele.	1	21-2109DK
B	Inlet Pipe	1	2-83141
C	Heat Shield	1	20-8314
D	Hose, Adapter 3.25/2.75x3"	1	5-328
E	Edge Trim, 16"	1	8-4016
F	Grommet, 7/16"	1	784632
G	Mount, Rubber 1" X 8mm	1	1228560
H	Edge Trim; 1/16"Gap X 18"L	1	102504
I	Spacer, 1.00 OD .256 ID X 1"	2	2-658
J	Bolt, Hex 1/4-20 X 1 3/4	2	1-2072
K	Washer, 1/4 SAE Flat	2	1-3028
L	Washer, 8mm Soft Mount	2	559960
M	Washer, 1/4 X 1-1/4 Fender	2	1-3027
N	Nut, 1/4-20	2	1-2073
O	Nut, M8 Hex Serrated	2	444.460.08
P	1/2" Bnd. Hose Clamp, 2.90"-3.75"	2	9452
Q	1/2" Bnd. Hose Clamp, 2.31-3.25"	1	9444
R	Hose Clamp #6 Mini	1	08407
S	Zip Tie, 11.25 Long	1	1-115
T	Cable, IAT Extension	1	8-322



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 airbox configuration for Jeep Wrangler.



b. Loosen the hose clamp securing the inlet tube to the throttle body.



c. Locate the IAT sensor on the inlet tube and release the wire harness connector from the IAT sensor.



d. Remove the stock breather hose from the airbox lid.



e. Unclasp the two clips securing the airbox lid.



f. Slide the inlet tube off the throttle body and remove the inlet tube and air filter lid as an assembly. Remove the IAT sensor from the inlet tube and set aside in a safe area.



g. Remove the stock air filter and remove the lower airbox by pulling straight up.



h. Remove the three stock grommets.



i. Remove the self tapping screw securing the fan shroud. Keep this screw for later use.



j. Engine bay after the stock airbox system has been 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.



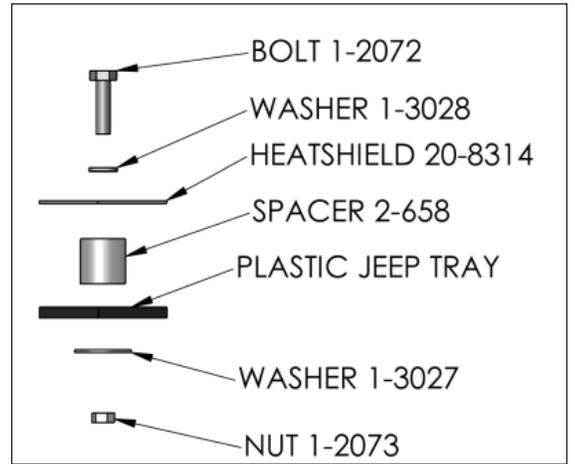
b. Prepare the supplied bolts with the small washers.



c. Place the two supplied spacers into the inserts that the lower stock grommets were removed from during step 2h.



d. Insert the hardware assembled in step 3b through the heat shield holes. Guide the bolts through the spacers that were installed in the previous step.



e. Secure the bolts with the supplied washers and nuts to secure the heat shield. Refer to the diagram for proper assembly.



f. Secure the heat shield's tab to the fan shroud using the stock screw removed in step 2i.



g. Secure the rubber mount to the heat shield with the supplied washer and nut. Install the edge trim onto the heat shield's top edge, also line the heat shield's opening with the supplied rubber edge trim.



h. Attach the coupler onto the throttle body.



i. Slide the intake pipe into the coupler and loosely secure with the provided hose clamps (#44 hose clamp on the throttle body and a #52 hose clamp on the intake pipe side).



j. Align the intake pipe's bracket to the rubber mount installed on the heat shield and loosely secure the bracket to the rubber mount as shown.



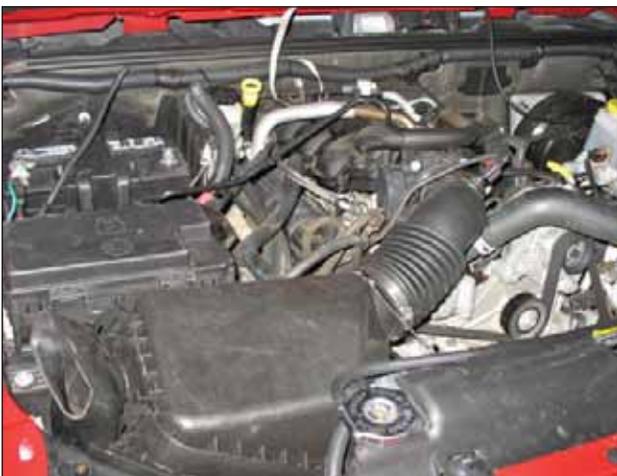
k. Install the grommet into the intake pipe's small inlet hole, then insert the IAT sensor into the grommet. Connect the IAT extension harness to the factory IAT harness and then connect the extension harness connector to the IAT sensor. Secure the wire harness with the supplied zip tie so it is situated in a safe position as shown.



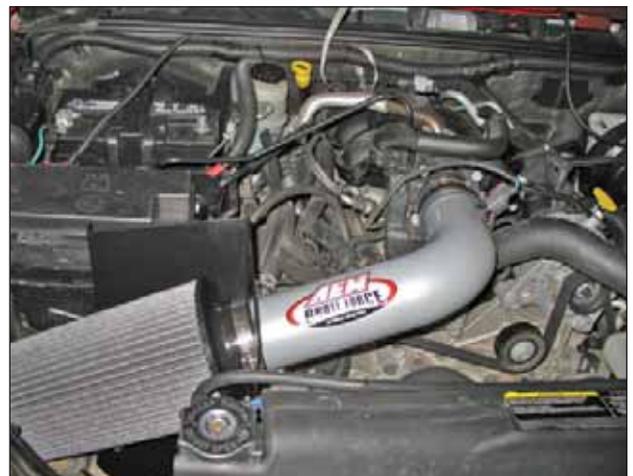
l. Attach the stock breather hose to the intake pipe nipple, secure with the supplied hose clamp.



m. Install the AEM® air filter onto the intake tube and secure in place with the supplied #52 hose clamp.



Factory airbox system installed



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)**