



Equipped with AEM® Dryflow™ Filter
No Oil Required!

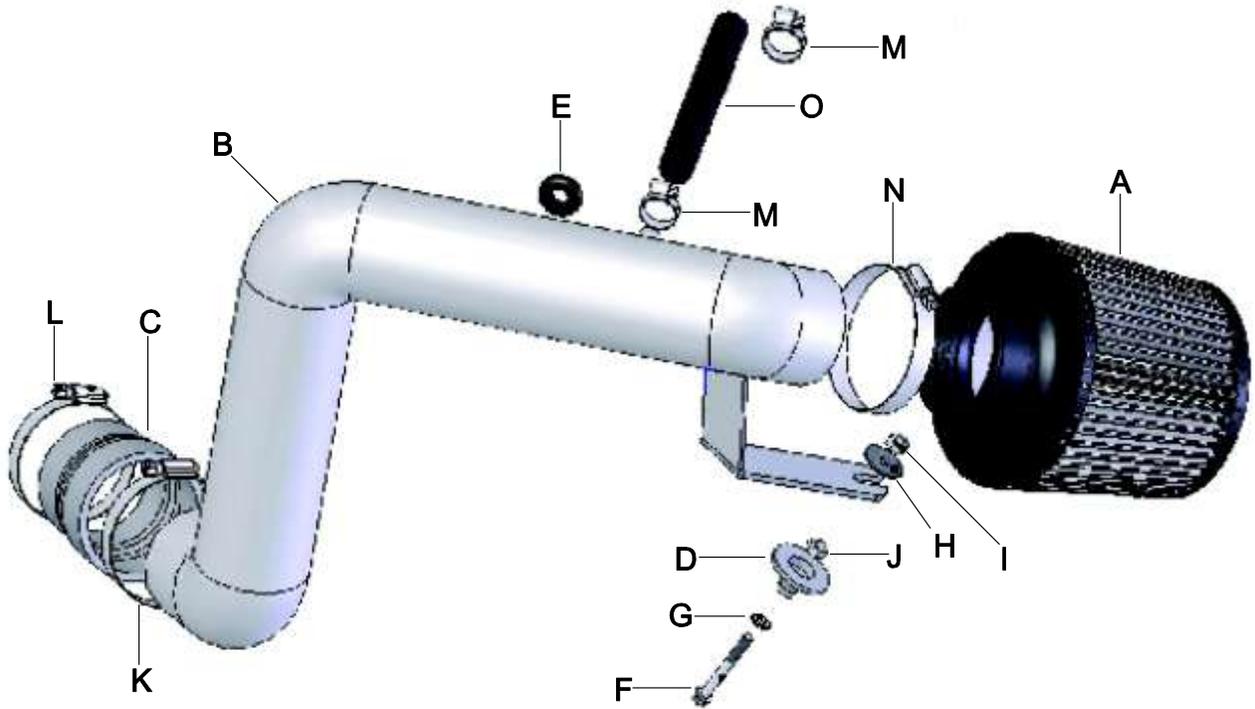
INSTALLATION INSTRUCTIONS

PART NUMBER: 21-8217

2009-2010	DODGE	Caliber	L4-2.0L, L4-2.4L	SEE * NOTE
2009-2010	JEEP	Compass	L4 2.0L, L4 2.4L	SEE * NOTE
2009-2010	JEEP	Patriot	L4-2.0L, L4-2.4L	SEE * NOTE
2007-2008	DODGE	Caliber	L4-2.0L, L4-2.4L	C.A.R.B. E.O. # D-670
2007-2008	JEEP	Compass	L4-2.0L, L4-2.4L	C.A.R.B. E.O. # D-670
2007-2008	JEEP	Patriot	L4-2.0L, L4-2.4L	C.A.R.B. E.O. # D-670

PARTS LIST

	Description	Qty.	Parts List
A	Element 2.75 X 5" Dry Ele.	1	21-202DK
B	Inlet Pipe	1	2-82171
C	Hose, Adapter 2.50/2.75 X 3" Bl.	1	5-257
D	Stand, Aluminum	1	2-670
E	Grommet, 1/2"	1	784634
F	Bolt, Hex 1/4-20 X 1 3/4	1	1-2072
G	Washer, 1/4 SAE Flat	1	1-3028
H	Washer, 6mm Soft Mount	1	08160
I	Nut, 1/4-20 Nylock	1	1-2074
J	Nut, 1/4-20	1	1-2073
K	1/2" Bnd. Hose Clamp, 2.31-3.25"	1	9444
L	1/2" Bnd. Hose Clamp, 2.15-3.00"	1	9440
M	Hose Clamp, 1"	2	99024.032
N	1/2" Bnd. Hose Clamp, 2.56"-3.50"	1	9448
O	Hose; 1/2"ID X 6"L	1	5-5006



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. Remove the engine cover by pulling straight up.



b. Twist and remove the retaining clips. Remove ducting by pulling up and forward.



c. Loosen the hose clamp at the airbox inlet.



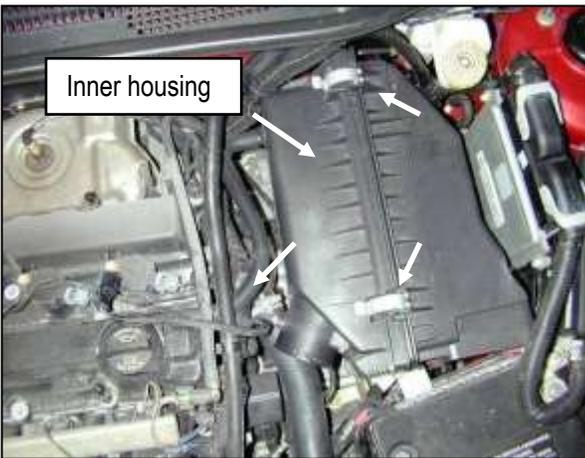
d. Loosen the inlet tube's hose clamp at the throttle body. Loosen the inlet resonator tube-mounting bolt; this is located near the throttle body.



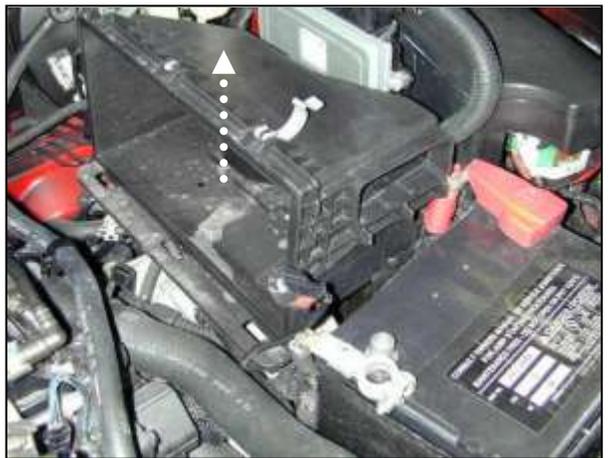
e. Remove Intake Air Temperature (IAT) sensor harness connector. Pull the tab out, then depress the clip to remove.



f. Remove the tree mount zip tie from inlet tubing. Remove inlet pipe and the IAT sensor.



g. Disconnect the crankcase breather hose from the valve cover. The other end will be connected to the airbox. Unclasp the airbox and remove the inner housing, air filter and breather hose.



h. Pull up on the other half of the airbox and remove the airbox.

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. Attach the reducer coupler to the throttle body. Secure with the 2.5" hose clamp. Loosely attach the hose clamp to the other side of the coupler.



c. Insert the supplied grommet for the IAT sensor into the inlet pipe.



d. Insert the threaded bolt and a 1/4" washer up through the airbox mount grommet.



e. Insert the spacer over the bolt. Secure the threaded bolt with the provided nut. Center the spacer in the grommet and tighten.



f. Insert the IAT sensor into the grommet from step 3c.



g. Insert the intake pipe as shown. Line up the pipe's bracket with the spacer assembly.



h. Insert the other end of the inlet pipe into the coupler at the throttle body. Realign the bracket and secure the hose clamp.



i. Attach the air filter. Check for clearance and tighten with hose clamp.



j. Check for clearance of the inlet pipe around the coolant hose. Tighten the bracket with a washer and lock nut.



k. Reattach the IAT sensor wire harness connector. Check for clearance around the negative battery terminal.



l. Attach the breather hose as shown to the inlet pipe and to the crankcase vent. Secure with hose clamps.



m. Secure both breather hoses with the factory clip (if equipped). Reinstall the engine cover.



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).**