



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

INSTALLATION INSTRUCTIONS

PART NUMBER: 21-8208

2005-2010	CHRYSLER	300C	V8-5.7L	C.A.R.B. E.O. # D-670-6
2006-2008	DODGE	Charger	V8-5.7L	C.A.R.B. E.O. # D-670-6
2005-2008	DODGE	Magnum	V8-5.7L	C.A.R.B. E.O. # D-670-6

PARTS LIST

Description	Qty.	Part Number
Air Filter Assy. 3.50 X 5" Dry Ele.	1	21-204DK
Inlet Pipe	1	2-82081
Heat Shield	1	20-P4510832
Hose, Silicone 3.50x2" Black	1	5-351
Edge Trim, 10"	1	8-4010
Mount, Rubber 1" X 8mm	1	1228560
Grommet, 1/2"	1	784634
Connector, Plastic 1/2" Blk.	1	8-117
Clip, Plastic Push In 0.300"	1	8-149
Hose; 1/2"ID X 2"L	1	5-5002
Washer, 8mm Soft Mount	2	559960
Nut, M8 Hex Serrated	2	444.460.08
1/2" Bnd. Hose Clamp, 3.15"-4.00"	3	9456
Hose Clamp #6 Mini	1	08407

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.

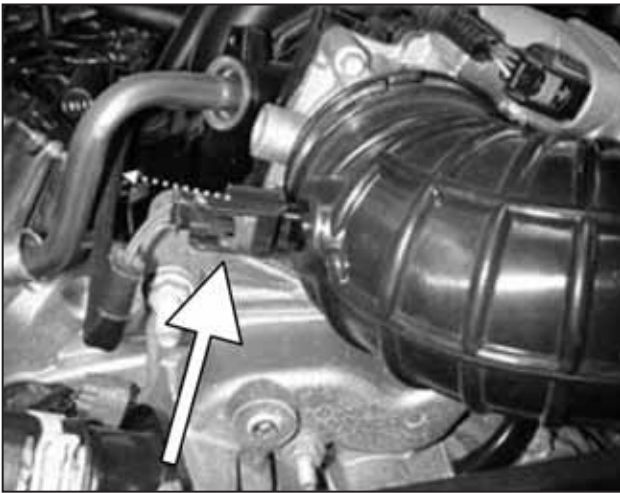
2. Removal of stock system



a. Factory air box system installed.



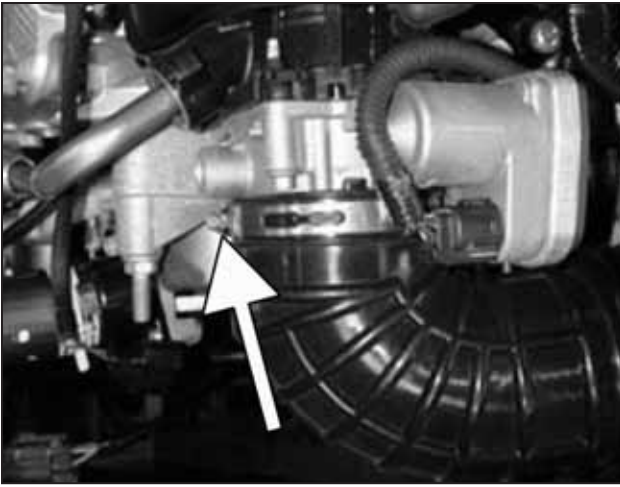
b. Remove the engine cover by pulling straight up.



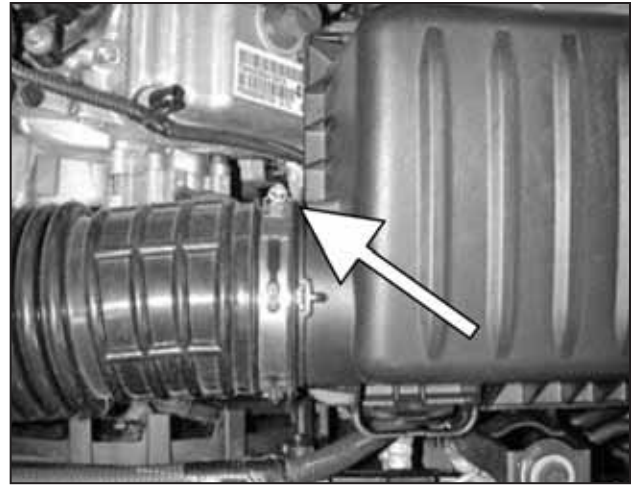
c. Pull out the locking clip for the intake air temperature (IAT) sensor.



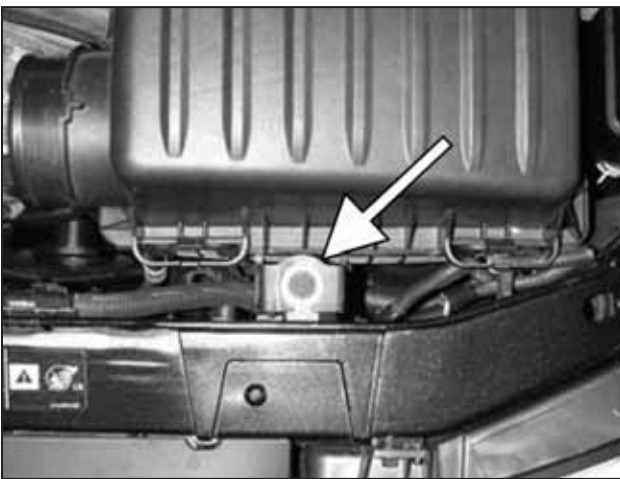
d. With the locking clip out, disconnect the IAT sensor wire harness from the sensor. Leave the IAT sensor in place.



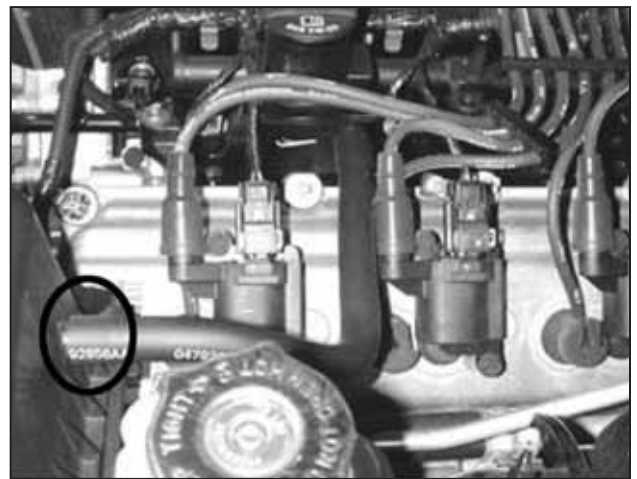
e. Loosen the inlet tube's hose clamp at the throttle body.



f. Loosen the the inlet tube hose clamp and remove the inlet tube from the vehicle.



g. Loosen and remove the mounting bolt. This bolt will be reused in a later step. Remove the air box.



h. Remove valve cover breather hose from the air box.

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 2" long coupler onto the throttle body with the provided hose clamps. Tighten the throttle body side hose clamp.



d. As you insert the heat shield into the engine bay, ensure the heat shield's tab slides securely into the slot as shown.



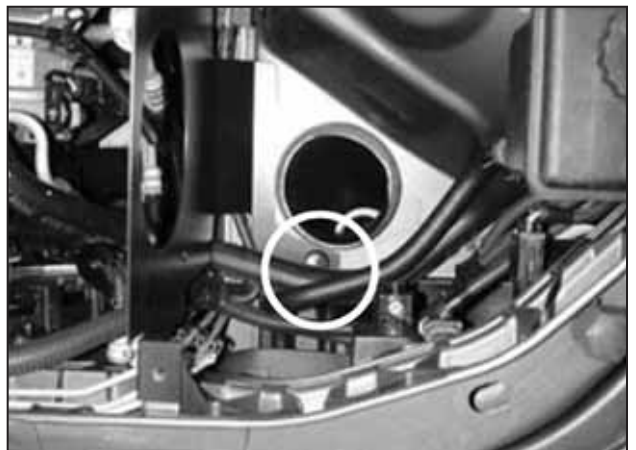
f. Check the final tab alignment. Insert the factory bolt removed in step 2g to secure this tab.



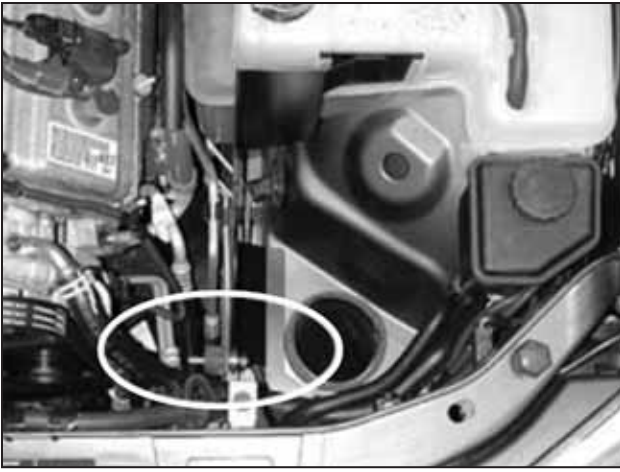
c. Insert the heat shield. You will need to check all mounting surfaces in the following steps.



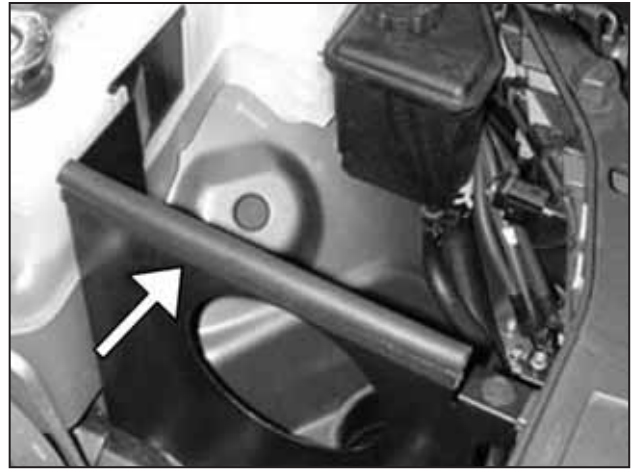
e. Check the clearance around the coolant lines. The mounting tab will pass under the coolant lines. Check for clearance against the wiring harness.



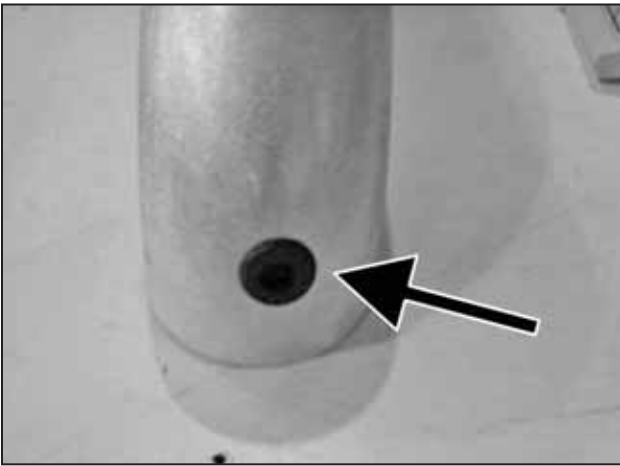
g. Insert the push in tab to secure the bottom mount.



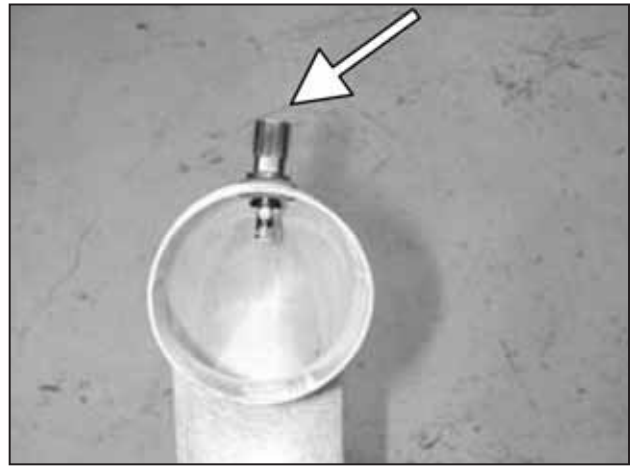
h. Insert the rubber mount into the heat shield and secure with the supplied washer and nut.



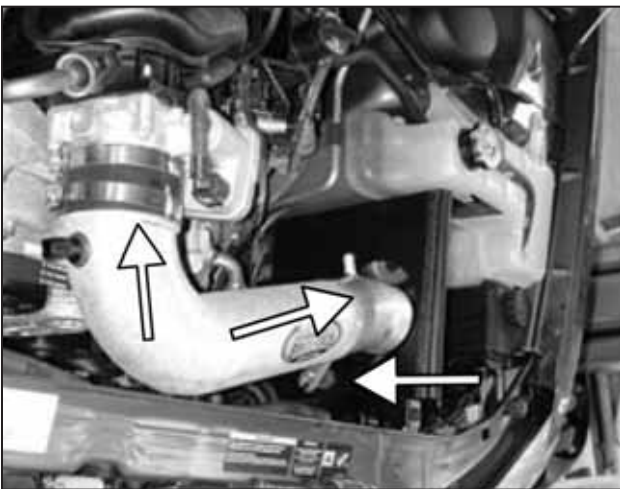
i. Attach the edge trim as shown.



j. Insert the rubber grommet into the intake pipe.



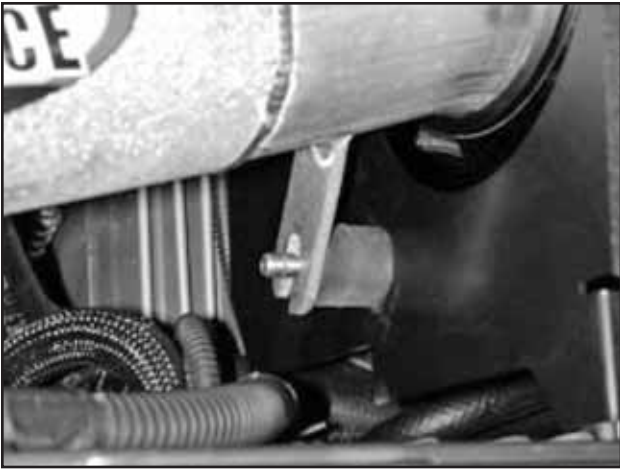
k. Insert the IAT sensor into the grommet. Use care when handling the sensor to prevent damage.



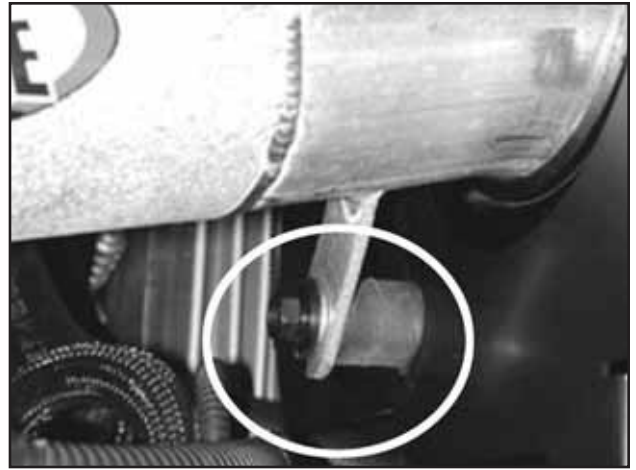
l. Insert the intake pipe into the heat shield opening. Insert the intake pipe into the throttle body coupler. Align the intake pipe's mounting bracket with the rubber mount that was installed on the heat shield.



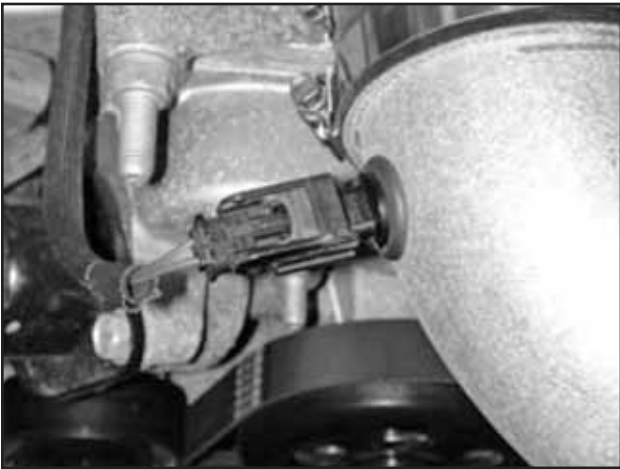
m. Attach the air filter element and tighten the hose clamp.



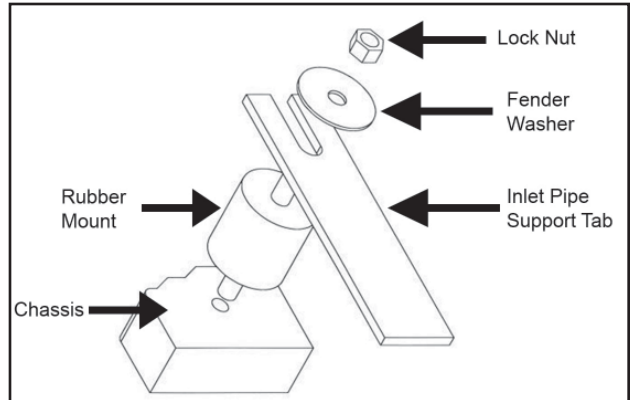
n. Align the bracket with the rubber mount. Once properly positioned, tighten the hose clamp securing the intake pipe to the throttle body.



o. Secure the intake pipe to the rubber mount with a washer and nut. Refer to the diagram below for proper rubber mount installation.



p. Reattach the IAT sensor wire harness and secure.



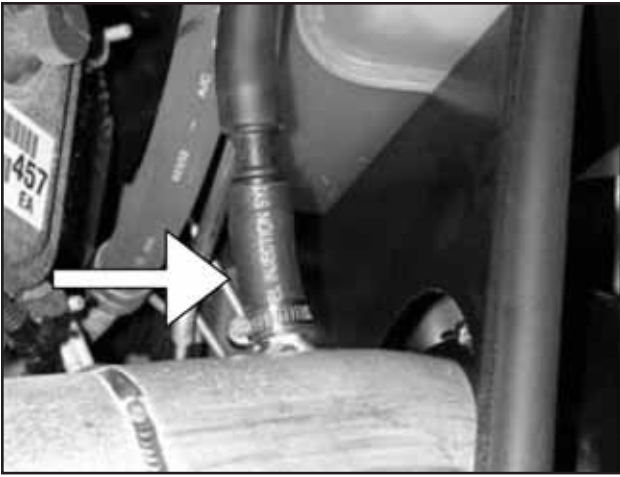
q. Diagram of proper rubber mount installation.



r. Insert the supplied plastic connector into the supplied breather hose.



s. Insert the other end of the plastic connector into the factory crank case breather hose.



t. Attach the breather hose assembly to the intake pipe's nipple and secure with a hose clamp.



Factory air box 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 the negative battery terminal 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. AEM Induction Systems requires cleaning the intake system's air filter element every 100,000 miles. When used in dusty or off-road environments, our filters will require cleaning more often. We recommend that you visually inspect your filter once every 25,000 miles to determine if the screen is still visible. When the screen is no longer visible some place on the filter element, it is time to clean it. To clean, purchase our Synthetic air filter cleaner, part number 99-0624 and follow the easy instructions.
- b. Use window cleaner to clean your powder coated AEM® intake tube.

NOTE: DO NOT USE aluminum polish on powder coated AEM® intake tubes.