

AIR RAID®

INTAKE SYSTEMS

311-178 INSTALLATION INSTRUCTIONS

2005-2010 Jeep Grand Cherokee 5.7L Hemi

Thank you for purchasing the Airaid Intake System. Please read the instruction manual carefully before proceeding with the installation. Contact Airaid @ (800) 498-6951 8:00 AM - 5:00 PM MST weekdays for questions regarding fit or instructions that are not clear to you. Your Airaid Intake System was carefully inspected and packaged. Check that no parts are missing, or were damaged during shipping. If any parts are missing, contact Airaid. The air filter element is protected from direct exposure to water and debris; care should be taken not to drive through deep water. WATER INGESTION IS THE DRIVERS RESPONSIBILITY!

Thank you for selecting Airaid.



Packing List:

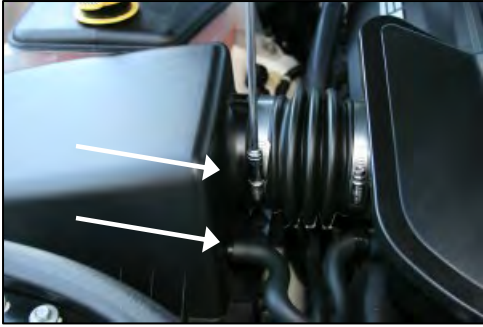
701-458	Airaid Premium Filter	1
KIT170MAFC	Quick Fit Panel	1
KIT170FPC	Quick Fit Panel	1
KIT170T	Modular Intake Tube	1
KITHUMPHS03	Urethane Hump Hose	1
KITCOUPLER03	Urethane Coupler	1
KITWSTRIP02	Weather Strip 18"	1
KIT178HP	Hardware & Instructions	1
-KIT6NWSAPZ	#6 Flat Washer	4
-KIT6CNKEPZ	6-32 Keps Nut	4
-KIT6C31MXPPZ	6-32 X 5/16" Screw	4
-KITHS60	#60 Hose Clamp	4
-KITGRMT03	Grommet	1
-KITSNP16M4	Speed Clamp	1
-KIT110T	Nylon zip tie	1

Tools Required for this Installation:

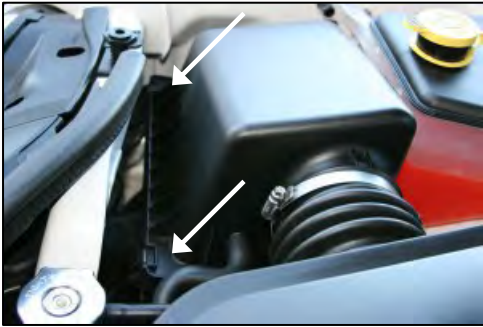
Phillips Head Screwdriver
 5/16" Socket or Wrench
 10mm Socket, Extension, and Ratchet
 Side Cutter Pliers



Installation Instructions. Read Me!



1. Disconnect the negative battery cable. Loosen the hose clamp on air cleaner box lid. Twist and remove breather hose from air cleaner box lid.



2. Unhook the two air cleaner lid latches on front of box.



3. Remove the air cleaner box lid by sliding it forward, and then up, and out of the factory intake tube.



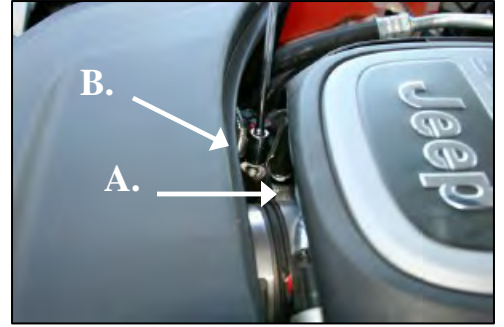
4. Remove factory air filter from air cleaner box.



5. Remove, and set aside the oil filler cap. *Use caution not to drop anything into engine while cap is off.*



6. Carefully lift up on the engine cover (*it is held in place by grommets, no bolts*) to access the hose clamp on the throttle body, and 10mm bolt next to the throttle body.



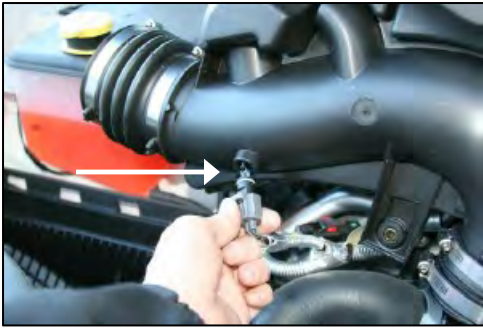
7. A.) Loosen the hose clamp on the throttle body. B.) With a 10mm socket, remove the bolt next to the throttle body that holds the intake resonator in place.



8. Carefully pull the resonator towards you and rotate the bottom up to gain access to the tie wrap holding the breather hose to the rubber coupler. Cut the tie wrap and discard.



9. Slide the clip off of the resonator that holds the breather tube in place.



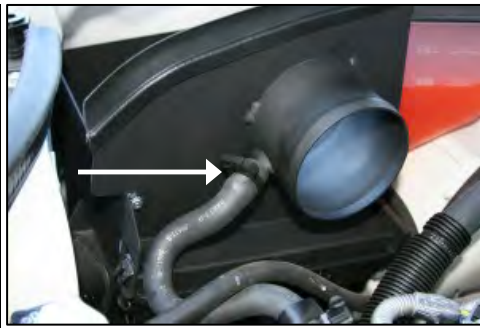
10. Carefully twist and remove the temperature sensor from the bottom of the resonator, and then remove the resonator from the vehicle.



11. Assemble the two pieces of the Quick Fit panels as shown, using the four 6-32 screws, washers, and nuts, that are provided in the kit.



12. Install the weather strip on the top of the Quick Fit assembly. *(Hint: start at one end, and go towards the other end, don't start in the middle.)*



13. Install the Quick Fit assembly in the bottom of the stock air box by sliding the four tabs on the back into the slots on the airbox, once installed, re-hook the two latches. Next, install the speed clamp over the breather hose and connect it to the Quick Fit assembly as shown.



14. Install the hump hose and two #60 hose clamps on the Quick Fit assembly. **Do not tighten** the clamps at this time.



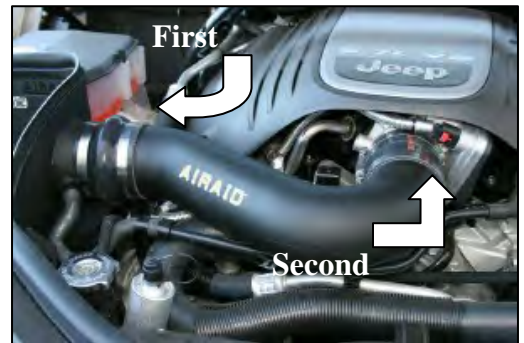
15. Install the coupler and two #60 hose clamps on the throttle body as shown. **Do not tighten** the clamps at this time. Secure the breather hose to the air conditioner line using the supplied zip tie.



16. Install the supplied grommet into the hole in the back of the tube.



17. Carefully install the temperature sensor into the grommet. Make sure it goes all the way in.



18. Carefully install the end of the tube into the hump hose, and then into the coupler on the throttle body as shown. Adjust the tube as needed, and **tighten the four hose clamps.**



19. Install the Airaid Premium Filter on the Quick Fit assembly as shown, and tighten the hose clamp.



20. Realign the engine cover with the grommets on the engine, and push down firmly to reseat the cover.



21. Reinstall the oil fill plug.
22. Recheck your work, make sure there is no foreign material in the intake, double check all hose clamps, screws and nuts for tightness.
23. **Reconnect the negative battery cable.**

Before!



After!



Synthamax Air Filters do not require oil. Service air filter as needed by cleaning with common non-petroleum all-purpose household cleaner and water. Simple Green®, Formula 409® or equivalent works great. Apply cleaner to outside of air filter and allow to soak. Then flush filter clean from the inside out with a garden hose and repeat steps if necessary. Do not apply high pressure water or air to clean filter. Allow filter to air dry and reinstall.

SynthaMax®

Do Not Oil



Instructions Revision Date:
11/17/10