

# AIR AID<sup>®</sup>

## INTAKE SYSTEMS

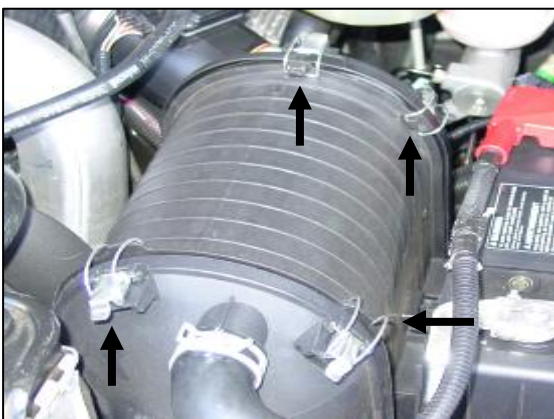
**Installation Instructions**  
**Part Number 400-131-1**  
**2003-07 Ford Powerstroke**  
**6.0L**

### Packing List:

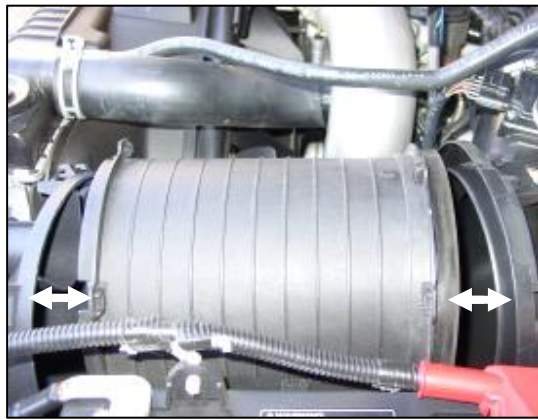
#1	720-128	Airaid Premium Filter	1
#2	KIT131CAB	Airaid Cool Air Box	1
#3	KIT131IT	Airaid Intake Tube	1
#4	KIT131TPC	Top Panel	1
#5	KITWSTRIP02	Weather Strip 27 1/2"	1
	KIT131HP	Hardware & Instructions	1
#6	KIT15DHC3050	1/4-20x 1/2" Button Head Bolts	9
#7	KIT09FWZ019	1/4" Flat Washer	9
#8	KIT131MOUNT	Black Hose Mount	1
#9	KITGRMT09	Grommet	1
#10	KIT131RIVET	Billet Rivet/Box Mount	2
#11	KIT10BHCP63	8-32x 5/8" Button Head Bolts	2
#12	KIT131G	Gasket	1
	KITBIT#T20	T-20 Security Bit	1

### Tools Required For Installation:

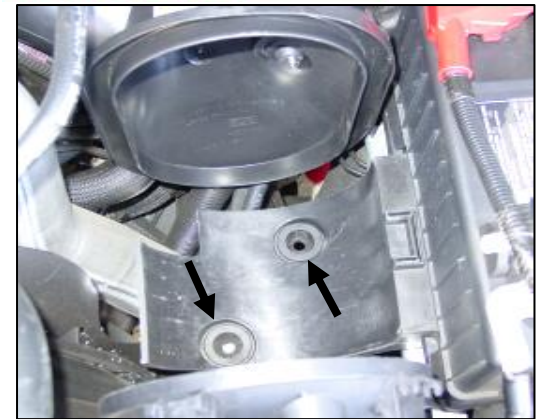
Flat Head Screwdriver  
 1/4", 5/16" Socket  
 5/32", 3/32" Allen Wrench  
 Ratchet & Extension  
 #T-20 Security Bit (Included)



**1. Disconnect the negative battery cables.**  
 Unlatch all four clips on the factory airbox.



**2. Remove the factory airbox by separating the inlet and outlet sections of the assembly.**



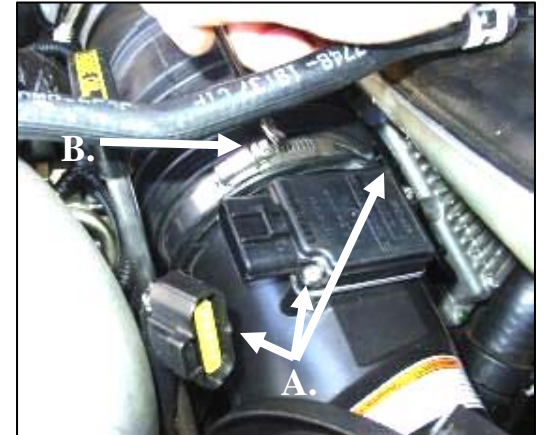
**3. The factory airbox is held in place by two rubber grommets. Pull straight up and remove the box. (Note: make sure the factory grommets remain in the lower airbox support.)**



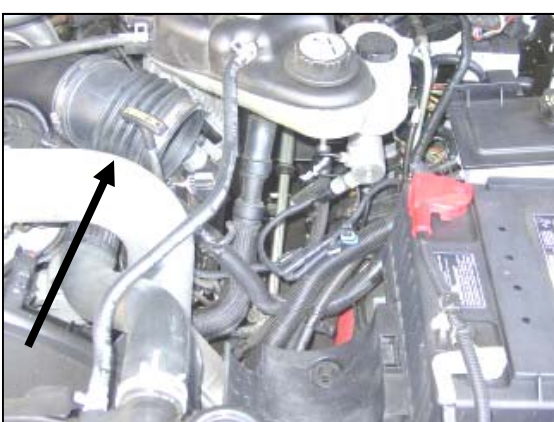
**4. Disconnect the electronic filter restriction gauge wiring harness, remove the restriction gauge, and the rubber grommet. (Note: retain these parts for reuse.) Remove the air filter inlet tube and hose assembly (see inset picture). USE CAUTION when removing these elements, as it is a tight fit. Be careful not to tear the factory insulation around the radiator support.**



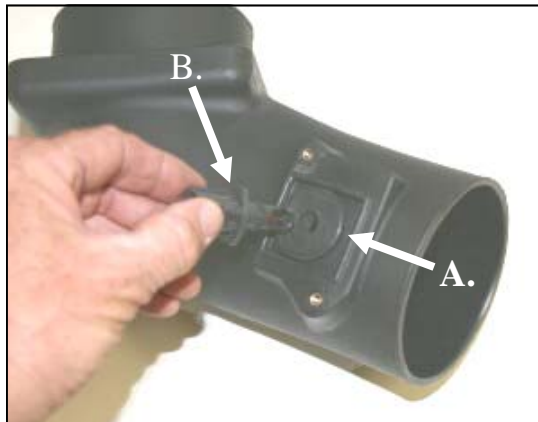
**5. STOP AND LOOK! If you have a temperature sensor like this, disconnect the temperature sensor wiring harness, remove the sensor from the tube (save it for reuse) and proceed to step #8. The early production 2005 F-250 and F-350 6.0 diesel trucks either came with a temperature sensor, or they came with a Mass Air Flow (MAF) sensor. These pictures will help you determine which sensor you have. Whichever sensor you have, this Airaid Intake System will fit.**



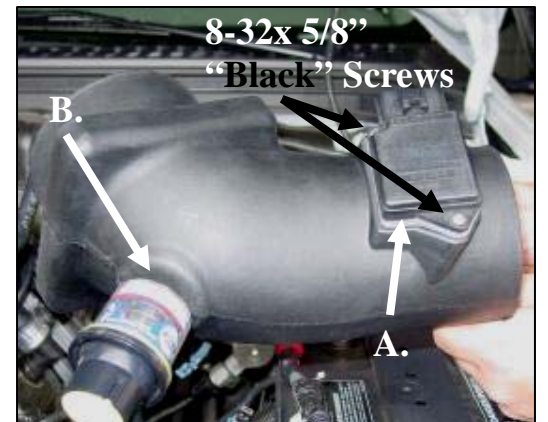
**6. IF YOU HAVE A MASS AIR FLOW SENSOR LIKE THIS, A.) Disconnect the MAF sensor wiring harness, remove the two screws using the provided T-20 security bit, and remove the sensor. (Note: retain the sensor for reuse.) B.) Using a 5/16" socket, loosen the hose clamp on the end of the intake tube.**



**7. Remove the factory intake tube assembly. (Note: do not remove the factory flexible turbo inlet hose from the turbo housing.)**



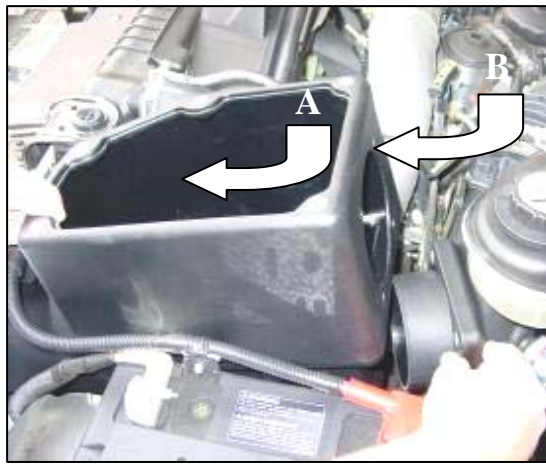
**8. A.) If you have the temperature sensor shown in step #5, install the supplied grommet (#9) as shown above. B.) Install the factory air temperature sensor as shown and then the factory grommet and filter restriction gauge. Skip to step #10.**



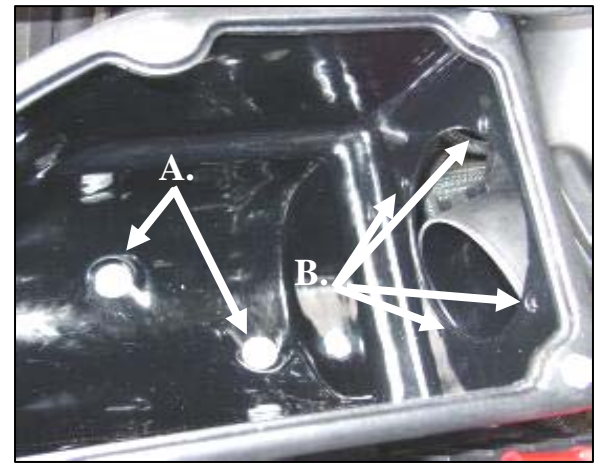
**9. A.) If you have the MAF sensor shown in step #6, install the gasket (#12) and sensor using two (black) 8-32x 5/8" button head bolts (#11). B.) Install the factory grommet and filter restriction gauge.**



**10.** Slide the Airaid Intake Tube (#3) into the factory flexible turbo inlet hose. (*Note: Do not tighten the hose clamp until assembly is complete.*) Reconnect the sensor wiring harness (to the temperature sensor, or the MAF sensor, whichever is present on your vehicle.)



**11.** A.) Install the Airaid Cool Air Box (#2) by inserting the long extension of the box into the radiator support. (*Note: Make sure the cool air box inlet is not blocked by the factory insulation.*) B.) Insert the Airaid Intake Tube into the airbox hole.



**12.** A.) Insert two billet rivet/box mounts (#10) through the bottom of the Airaid Cool Air Box and into the factory grommets. B.) Using four stainless steel 1/4-20x1/2" button head bolts (#6) and 1/4" flat washers (#7), mount the Airaid Intake Tube to the airbox.



**13.** Tighten the hose clamp where the factory flexible turbo inlet tube slides over the Airaid Intake Tube.



**14.** Factory tolerances may vary between the MAF sensor and the coolant reservoir. Therefore, it may be necessary to loosen the two 5/16" mounting bolts and adjust the reservoir for better clearance.



**15.** Install the Airaid Premium Filter (#1) onto the Airaid Intake Tube inside of the airbox, and tighten the hose clamp.



**16.** Install the Top Panel (#4) onto the top of the Airaid Cool Air Box using five stainless steel 1/4-20x1/2" button head bolts (#6) and 1/4" flat washers (#7).



**17.** Install the weather strip (#5) around the edges of the top panel. (*Hint: Start at one corner of the panel and work to the other end.*)



**18.** Spread the black hose mount (#8) over the radiator overflow hose and insert the tab through the hole in the side of the top panel.

Thank you for purchasing the Airaid Intake System. 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! The air filter is reusable and should be cleaned using the Airaid Filter Tune-Up Kit periodically.

**Before**

**After!**



**19. Double check your work!**

Make sure there is no foreign material in the intake path. Make sure all clamps, hoses, bolts, and screws are tight.

**20. Reconnect the negative battery cables!**



**Don't Forget Your AIRAID Filter Tune-Up Kit!**

P/N 790-551 Aerosol Spray  
P/N 790-550 Squeeze Spray

Included with your Airaid Intake System is a sticker with a California Air Resources Board (C.A.R.B.) Executive Order (EO) number. This sticker must be placed in plain view inside of the engine compartment. Failure to do so may prevent you from passing a smog inspection.



Instructions Revision  
Date: 2/22/07