



Installation Instructions

For Part Numbers:

400-101 720-478 Airaid Oiled Media Filter

401-101 721-478 SynthaMax Dry Media Filter - Red

402-101 722-478 SynthaMax Dry Media Filter - Black

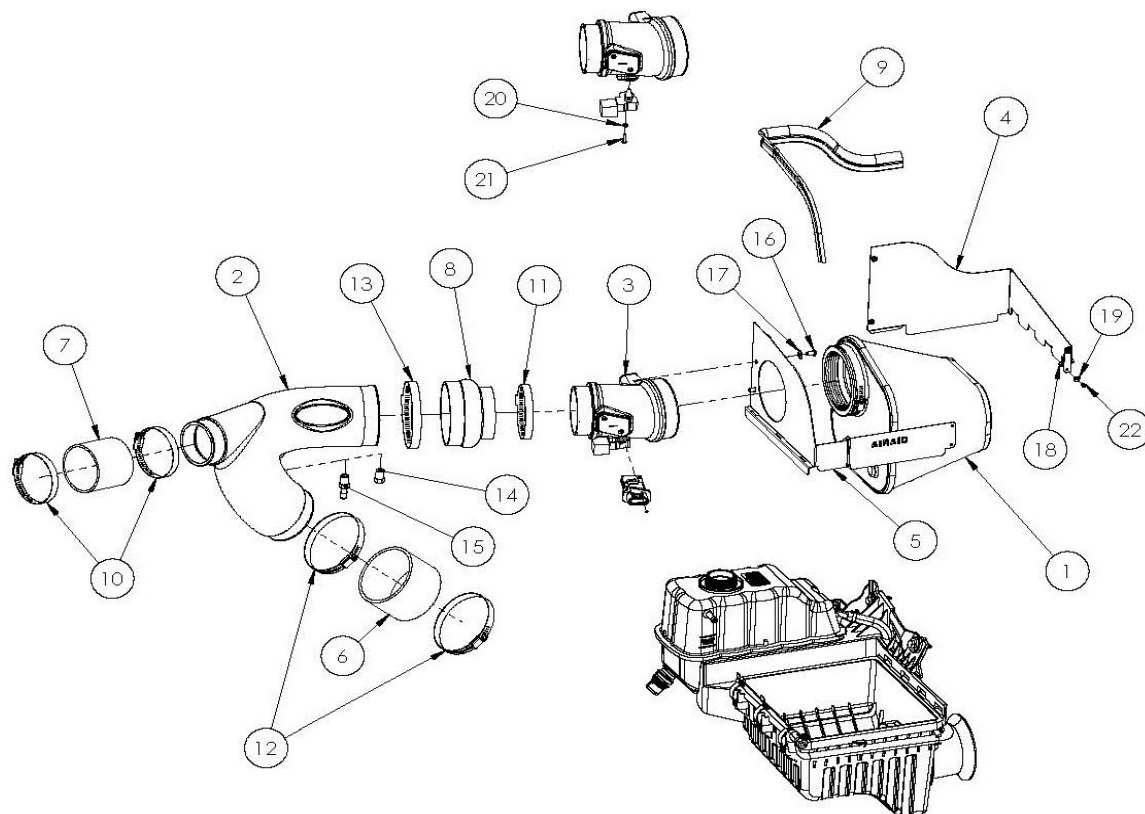
403-101 723-478 SynthaMax Dry Media Filter - Blue

2011-2014 Ford F-150 3.5L

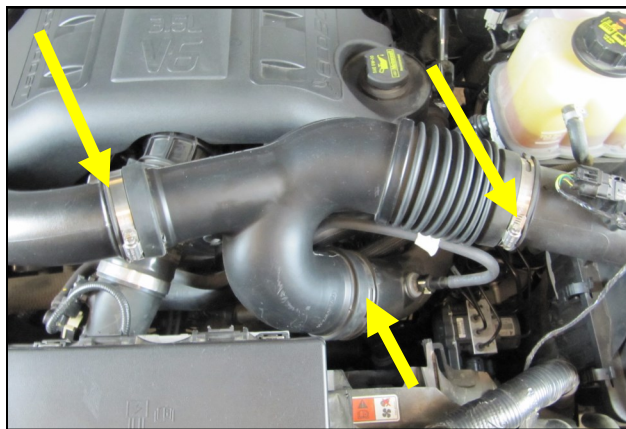
EcoBoost V6

Component Identification

1	AIRRAID PREMIUM AIR FILTER	1
2	INTAKE TUBE	1
3	SENSOR TUBE	1
4	REAR PANEL	1
5	FRONT PANEL	1
6	4" COUPLER	1
7	3" COUPLER	1
8	HUMP HOSE	1
9	WEATHER STRIP, 22"	1
	HARDWARE AND INSTRUCTIONS	1
10	#48 HOSE CLAMP	2
11	#56 HOSE CLAMP	1
12	#64 HOSE CLAMP	2
13	#68 HOSE CLAMP	1
14	1/4 NPT PLUG	1
15	1/4 NPT BARBED FITTING	1
16	1/4-20 x 1/2" BUTTON HEAD SCREW	2
17	1/4" FLAT WASHER	2
18	6-32 KEP NUT	4
19	#6 FLAT WASHER	4
20	#8 FLAT WASHER	1
21	8-32 BUTTON HEAD SCREW	1
22	6-32 PAN HEAD SCREW	4
23	T20 TORX BIT	1



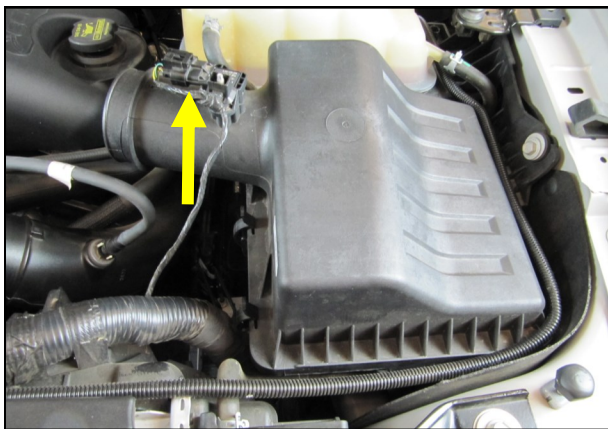
Full color instructions can be viewed on our web site at Airaid.com. Use the **Product Search** function to find your part number, and click **View Details**.



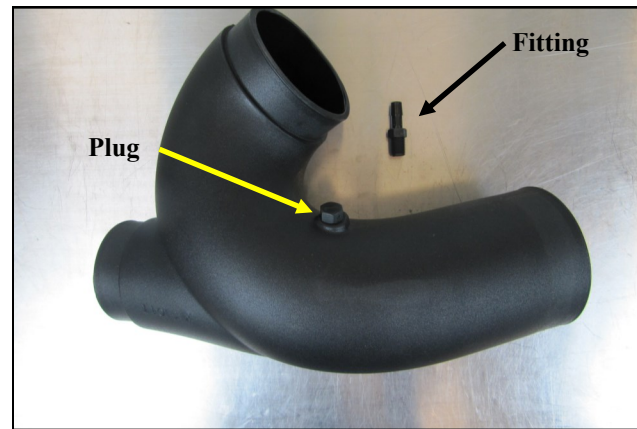
1. Disconnect The Negative Battery Terminal.

Loosen the 3 clamps on the factory intake tube and remove it from the vehicle.

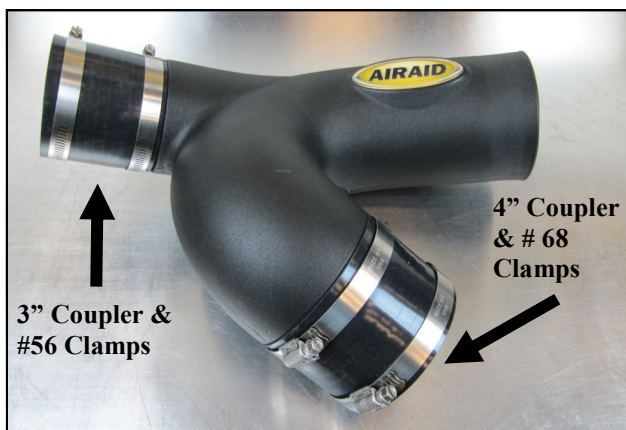
NOTE: 2011 models will have a vacuum line attached to the underside of the intake tube that will need to be disconnected.



2. Disconnect the wiring harness from air sensor in the air box lid. Unclip the air box lid and remove it and the factory air filter from the vehicle. The lower half of the factory air box is to remain in the vehicle.



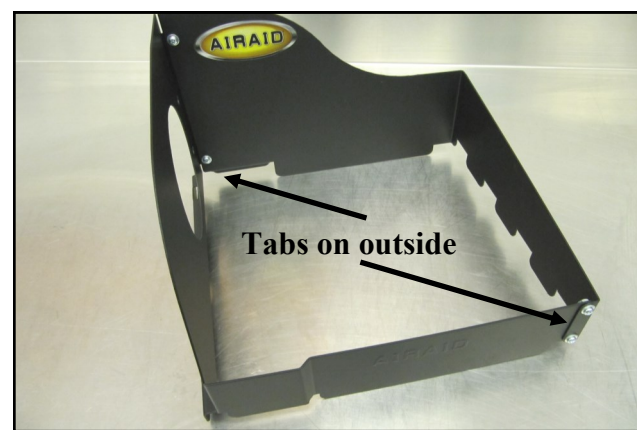
3. On late model vehicles, Install the 1/4" Plug into the Airaid Intake Tube as shown. On 2011 models with the vacuum line in the intake, install the 1/4" Barbed Fitting. The Plug will not be used.



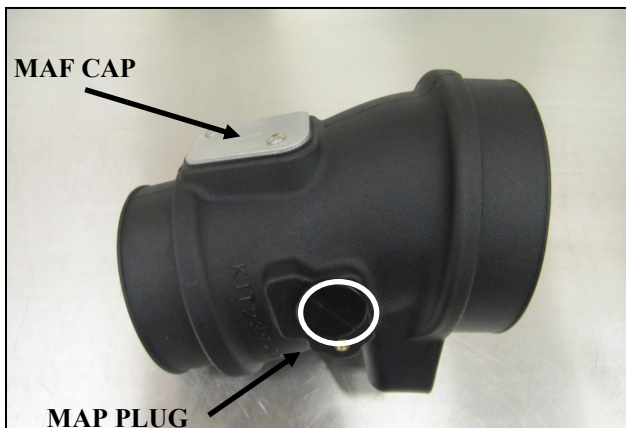
4. Slide the Couplers and Clamps onto the Intake tube as shown.



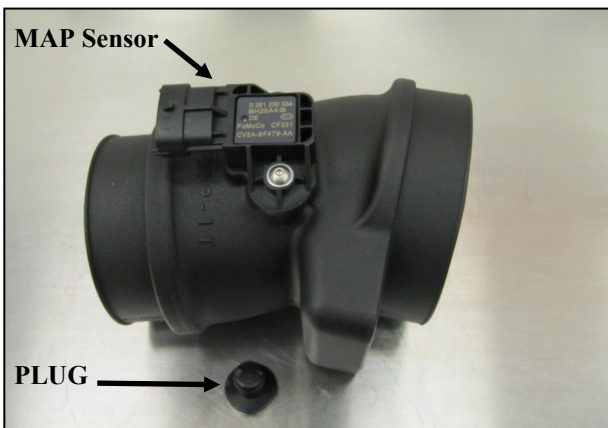
5. Install the Airaid Intake Tube onto the factory turbo plumbing and tighten the Clamps. Reconnect the vacuum line if so equipped.



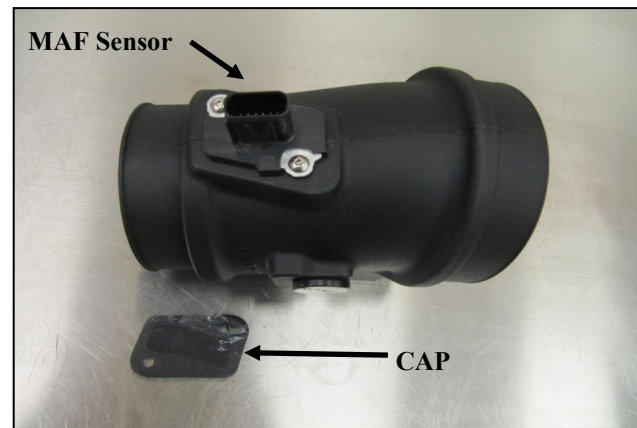
6. Assemble the Front and Rear Panels as shown with the tabs on the outside of the assembly. Use the four 6-32 Button Head Screws, #6 Flat Washers, and #6 Kep Nuts to secure the assembly.



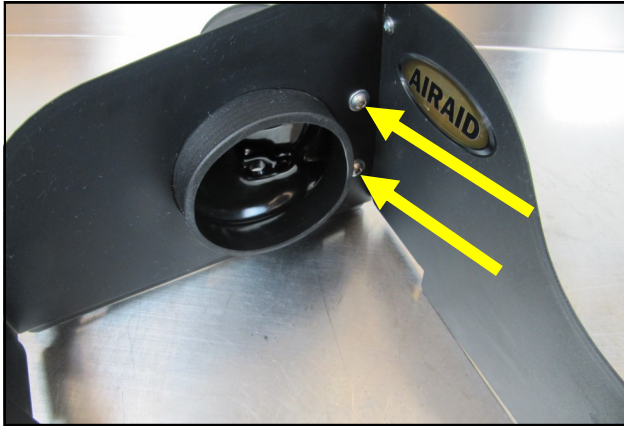
7. Depending on the configuration of your factory intake system, you will use one of the two sensor receptacles in the Airaid Sensor Tube. There is a Mass Airflow sensor receptacle on the Tube and a MAP sensor receptacle on the Tube. Both ports are capped and plugged from the factory.



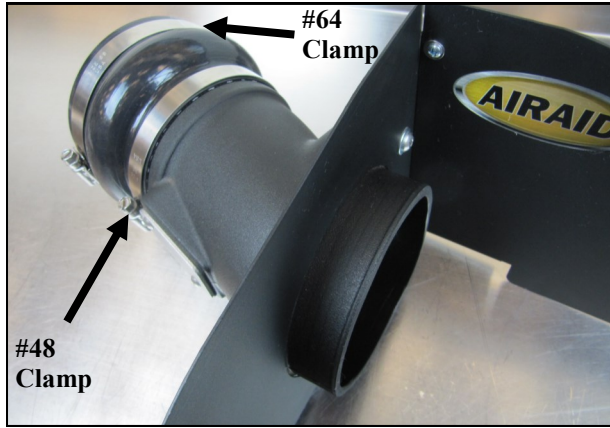
8. If your vehicles intake utilizes a MAP sensor, Remove the MAP Plug and transfer the MAP sensor into the Airaid Tube as shown. Secure the sensor using the Long, 8-32 Button Head Screw and the #8 Washer. Discard the Plug.



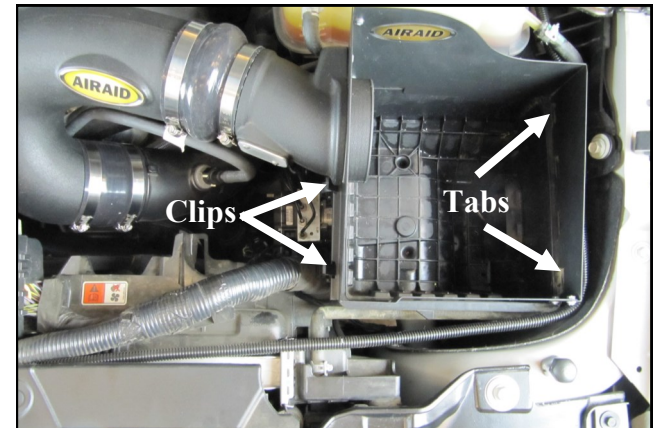
9. If your vehicles intake utilizes a Mass Air flow, or MAF sensor, Remove the MAF Cap and Gasket and transfer the sensor into the Airaid Tube as shown. A Torx Bit has been supplied in the hardware pack aid in removal. Secure the sensor by reusing the Two 8-32 Button Head Screws. Discard the Cap and Gasket.



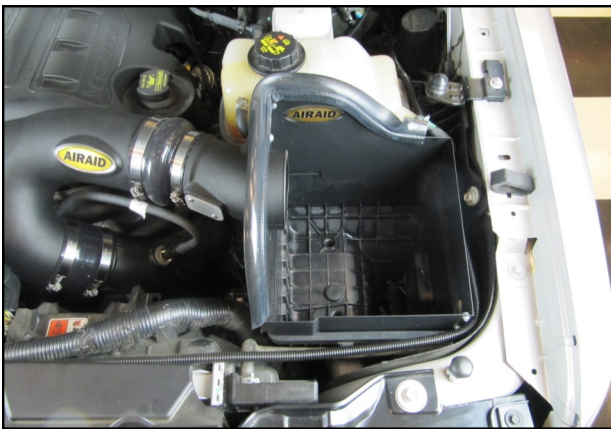
10. Mount the Sensor Tube onto the Panel Assembly and secure using the two 1/4-20 Button Head Screws and 1/4" Flat Washers.



15. Slide the Hump Hose and Clamps onto the Sensor Tube as shown.



11. Install the Tube and Panel assembly onto the Airaid Intake Tube first, then insert the Panel tabs into the factory air box slots. Adjust the assembly until the OEM air box clips can positively engage the Panels and lock.



12. Tighten the Clamps on the Hump Hose, reconnect the MAF or MAP sensor and install the Weather Strip as shown, with the contour rolling away from the Filter area.



13. Install the Airaid Premium Filter onto the Sensor Tube and tighten the clamp.



14. 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. Double check the hood clearance. **Reconnect the negative battery cable.**

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 periodically.

FILTER IDENTIFICATION

720-478 Airaid Oiled Media
722-478 Airaid SynthaMax Dry Media - Black

721-478 Airaid SynthaMax Dry Media - Red
723-478 Airaid SynthaMax Dry Media - Blue

For your Oiled media filter we suggest using the AIRAID Filter Tune-Up Kit!



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



SynthaMax[®]

Do Not Oil

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.