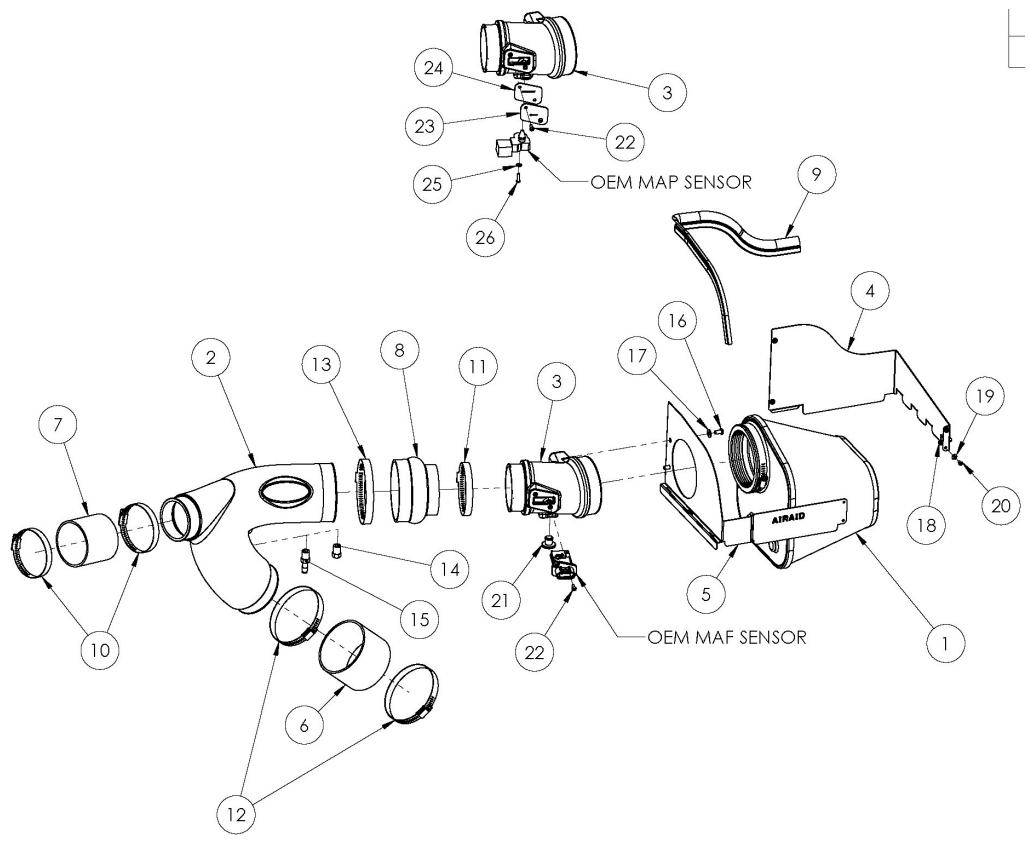
Installation Instructions

For Part Numbers:

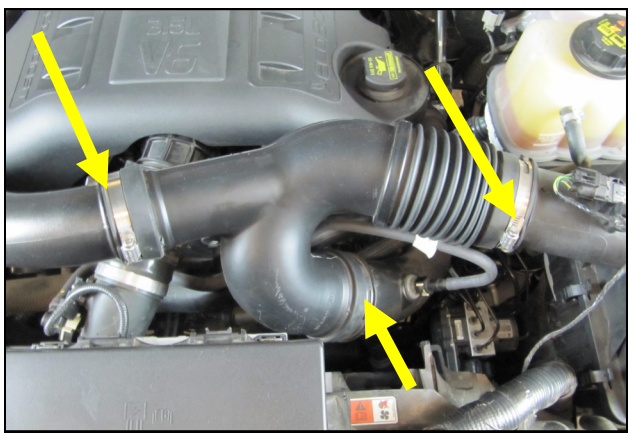
400-101 720-478 Airaid Oiled Media Filter
401-101 721-478 SynthaMax Dry Media Filter - Red
402-101 722-478 SynthaMax Dry Media Filter - Black
403-101 723-478 SynthaMax Dry Media Filter - Blue

2011-2014 Ford F-150 3.5L EcoBoost V6

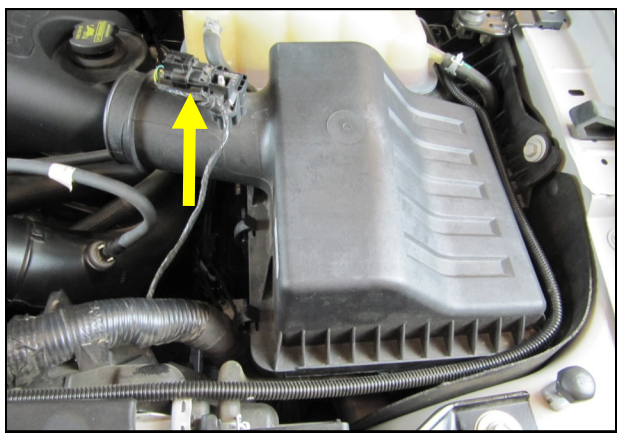


Component Identification

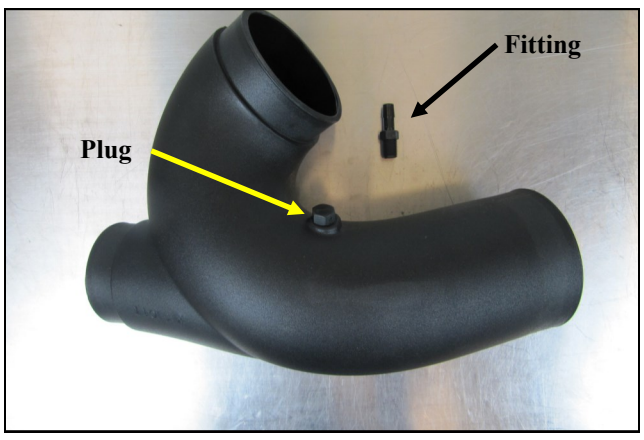
1	Premium Filter	1
2	Airaid Intake Tube	1
3	Airaid Sensor Tube	1
4	Rear Panel	1
5	Front Panel	1
6	4" Coupler	1
7	3"Coupler	1
8	Hump hose	1
9	Weather Strip	1
10	#48 Hose Clamp	2
11	#56 Hose Clamp	1
12	#64 Hose Clamp	2
13	#68 Hose Clamp	1
14	Hex Plug	1
15	Barbed Fitting	1
16	1/4-20 X 1/2"L Button Head Screw	2
17	¼" Flat Washer	2
18	6-32 Kep Nut	4
19	#6 Flat Washer	4
20	6-32 x 5/16" Phillips Head Screw	4
21	MAP Plug	1
22	8-32 x ½" Button Head Screw	2
23	MAF Cap	1
24	MAF Gasket	1
25	#8 Flat Washer	1
26	8-32 X 5/8" Button Head Screw	1
27	T-20 Torx Bit	1
28	Airaid Bubble Decal	1
29	Airaid Foil Decal	1



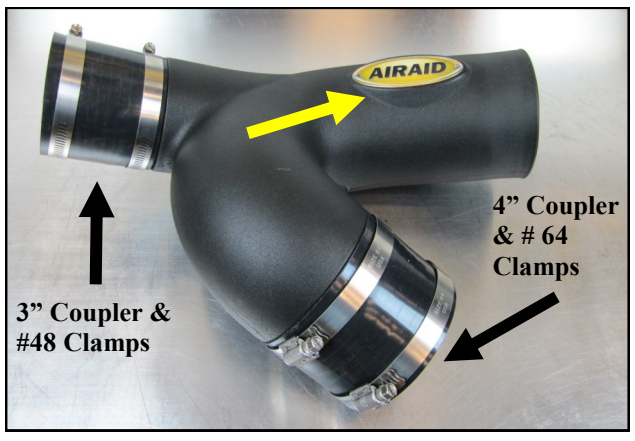
1. Disconnect The Negative Battery Terminal.
Loosen the 3 clamps on the factory intake tube and remove it from the vehicle.
NOTE: 2011 models will have a vacuum line attached to the underside of the intake tube that will need to be disconnected.



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.

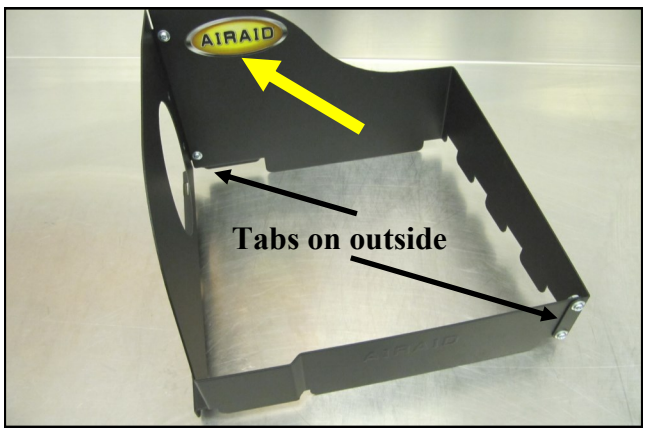


3. On 2011 models with the vacuum line in the intake, install the 1/4" Barbed Fitting. The Plug will not be used. On 2012-2014, Install the 1/4" Plug into the Airaid Intake Tube as shown.

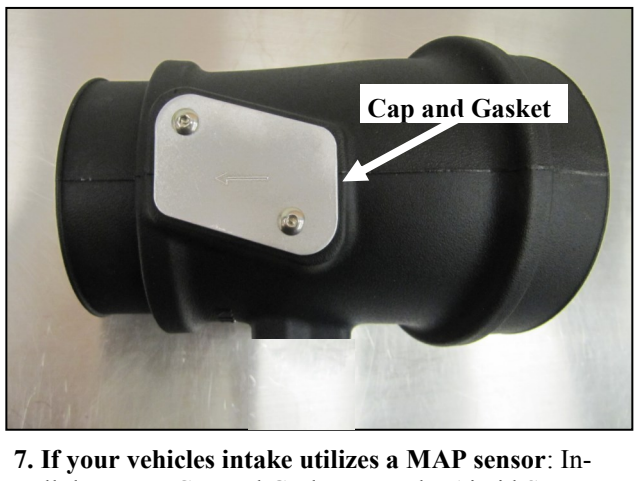


4. Slide the Couplers and Clamps onto the Intake tube as shown. Complete the Tube assembly by applying the Airaid Bubble decal.

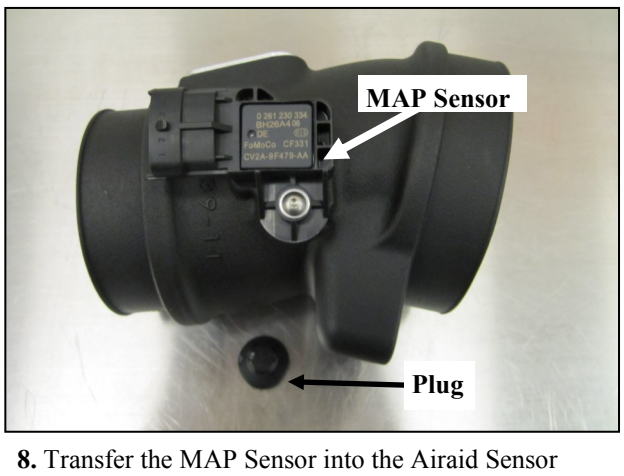
5. Install the Airaid Intake Tube onto the factory turbo plumbing and tighten the Clamps. On 2011 models, reconnect the vacuum from step **1** to the Fitting installed in step **3**.



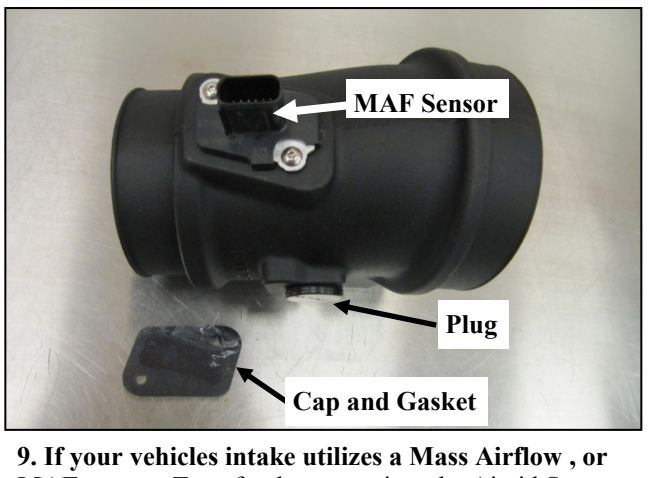
6. Assemble the Front and Rear Panels as shown with the tabs on the outside of the assembly. Use the four 6-32 Phillips Head Screws, #6 Flat Washers , and #6 Kep Nuts to secure the assembly. Complete the Panel assembly by applying the Airaid Foil decal.



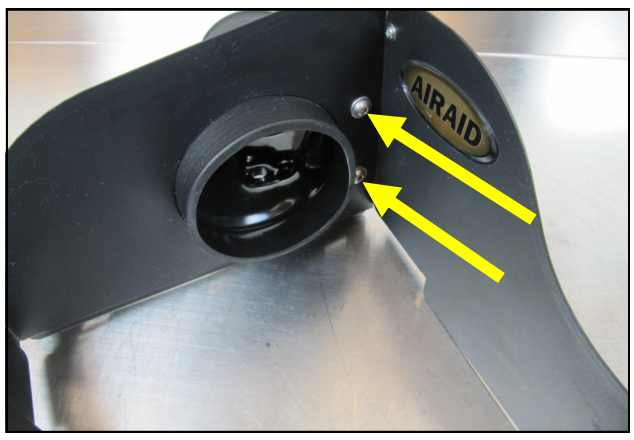
7. If your vehicles intake utilizes a MAP sensor: Install the Meter Cap and Gasket onto the Airaid Sensor-Tube as shown, using the two 8-32 1/2" Button Head Screws.



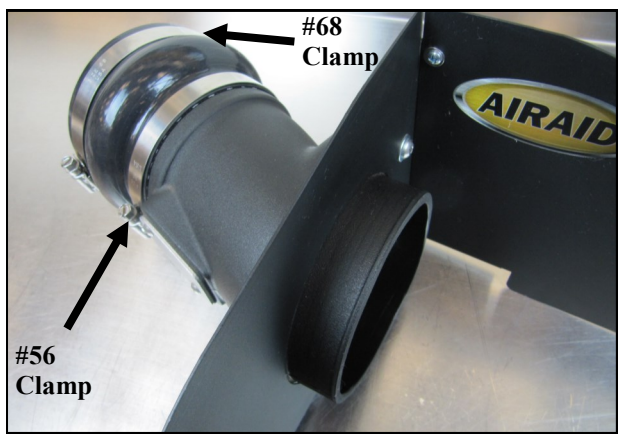
8. Transfer the MAP Sensor into the Airaid Sensor Tube as shown. Secure the sensor using the Long 8-32 Button Head Screw and the Washer . Discard the Plug. It will not be used.



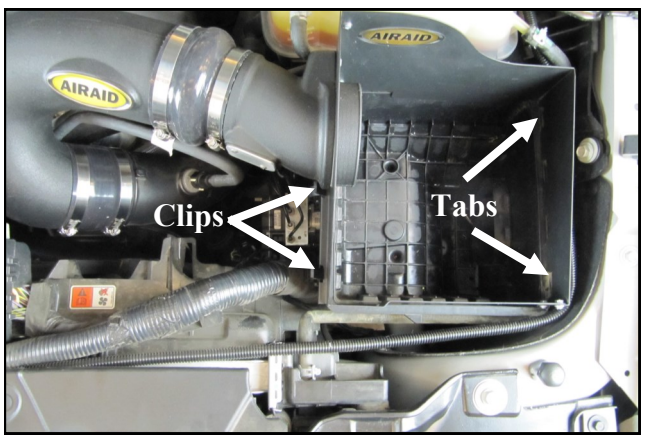
9. If your vehicles intake utilizes a Mass Airflow , or MAF sensor: Transfer the sensor into the Airaid Sensor Tube as shown and secure using the two 1/2" Button Head Screws. Complete the Tube assembly by inserting the MAP Plug. Discard the Meter Cap and Gasket. They will not be used.



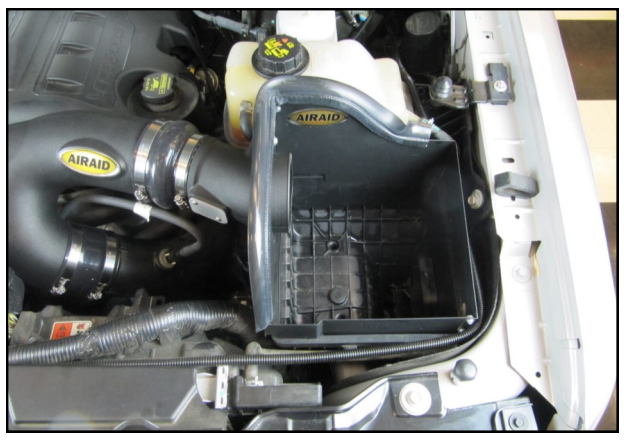
10. Mount the Sensor Tube onto the Panel Assembly and secure using the two 1/4-20 Button Head Screws and 1/4" Flat Washers.



11. Slide the Hump Hose and Clamps onto the Sensor Tube a shown.



12. 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.



13. 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.

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

15. 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.

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**.

FILTER IDENTIFICATION

720-478 Airaid Oiled Media
722-478 Airaid SynthaMax Dry Media - Black
721-478Airaid 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.