

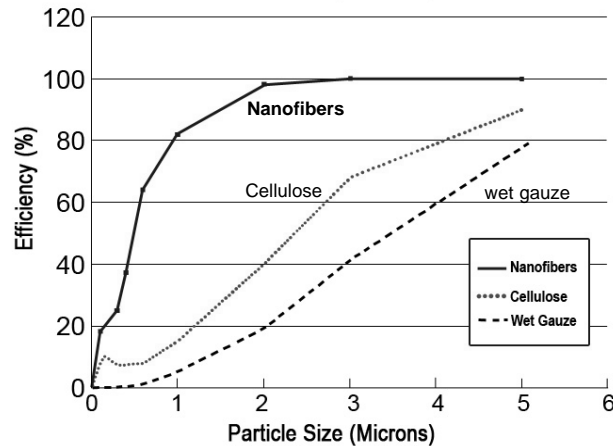


Part number PF9051
2008-2010 Ford Powerstroke
Turbo Diesel
V8 6.4L

- 1 - Custom cast aluminum intake
- 1 - Large oval filter with inverted top made from Ea nano-fiber media (#1029)
- 1 - Power Box contents: **(W-PBDF)**
 - 1- Aluminum skin plate (#11043)
 - 1- Main body (#15007)
 - 1- Center air plenum (#15036)
 - 1- Front pre-filter screen (#15011)
 - 10- M4x12mm socket head screw (#6074)
 - 4- m6 x 12mm socket head (#6056)
 - 1- Velocity adapter w/ Vit valve springs **(W-PBVDS)**
- 1 - Air box bracket (#20107)
- 4 - M8x12mm Low head socket bolts (#6076)
- 2 - Stand off mounts (#15023)
- 1 - 4 5/8" Straight hose (#3171)
- 1 - 3.00"x1.00" Centering Spacer hose (#3187)
- 1 - 3.25"x4.00 Step hose (#3183)
- 2 - 072 Clamps (#4014)
- 1 - 064 Clamp (#4006)
- 1 - 056 Clamp (#4005)
- 2 - M4 button head screws (#6072)
- 1 - 1.00" ID x 1.375" OD Grommet (#8033)
- 1- 90 degree vacuum return line (#8036)
- 1- 4 page instructions

Warning: Do not attempt to disassemble part# W-PBDF. Product warranty will be voided if it is determined that the W-PBDF has been tampered with. Contact Injen customer service for service or repair.

Media Efficiency Comparison



Nanofiber technology: Is an oil free filtration media that has been used exclusively in heavy duty applications, including the US Army's Abrams M1 tanks. Injen is now making it available to diesel applications.

Congratulations! You have just purchased the best engineered and most advanced air intake system, equipped with Ea nanofiber air filter.

Please check the contents of this box immediately.

Report any defective or missing parts to the authorized Injen or AMSOIL dealer you purchased this product from.

Before installing any parts of this system, please read the instructions thoroughly. If you have any questions regarding installation, please contact your dealer, Injen Technology or AMSOIL.

Installation DOES require some mechanical skills. A qualified mechanic is always recommended.

*Do not attempt to install the intake system while the engine is hot. The installation may require removal of radiator fluid line that may be hot.

Injen Technology offers a limited lifetime warranty to the original purchaser against defects in materials and workmanship. Warranty claims must be handled through the dealer from which the item was purchased.

Injen Technology 244 Pioneer Place Pomona, CA 91768 USA

Note: This intake system was tested with an Injen/AMSOIL air filter made from synthetic Nanofiber media which has a 100,000 mile service life or four year warranty, whichever comes first

Note: In off-road, frequently dusty or other severe duty applications, clean or change the Injen/AMSOIL air filter more often as determined by operating conditions or as indicated by the air restriction gauge.



Figure 1

Doc. 06-21-2011 Rev.1 PH



Figure 2

Note: Disconnect the negative battery terminal before beginning the installation process.



Figure 3
Stock engine compartment



Figure 4
Depress the tab on the electrical harness clip and disengage it from the mass air flow sensor as shown above.

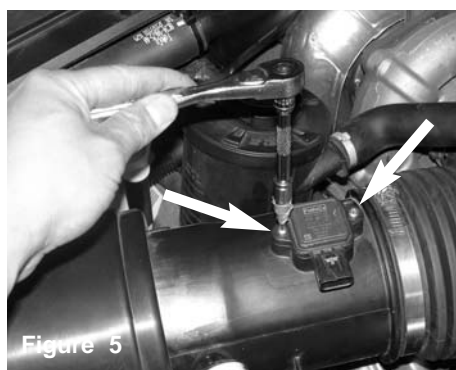


Figure 5
Use the T20 security torx bit to loosen and remove the bolts on the mass air flow sensor.

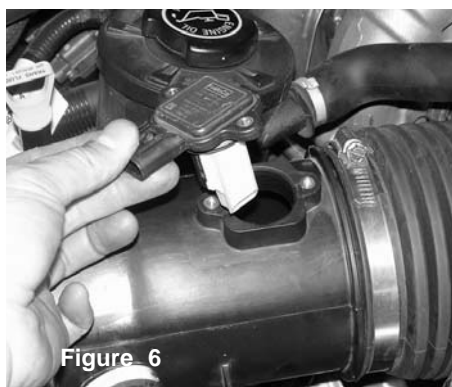


Figure 6
Once you have removed the bolts, continue to pull the mass air flow sensor out of the sensor housing.

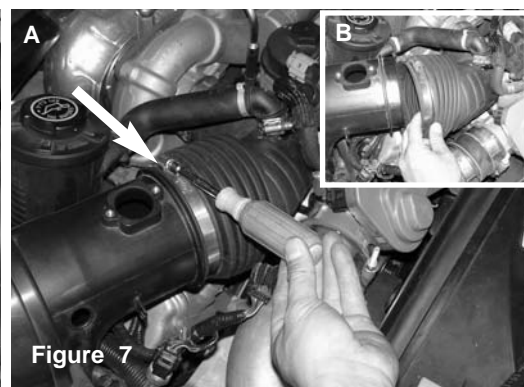


Figure 7
Figure A: Use a 8mm nut driver and loosen the clamp on the air duct connected to the factory air box. **Figure B:** continue to pull the air duct off the air box housing

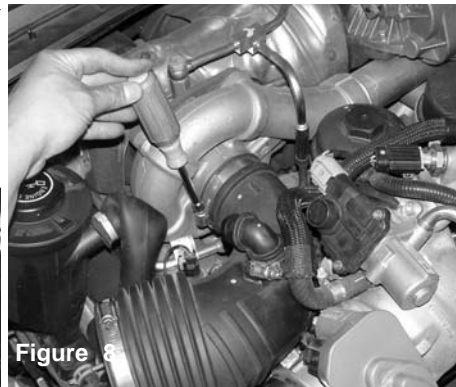


Figure 8
Now use a 8mm nut drive and loosen the clamp on the air duct on the turbocharger inlet.

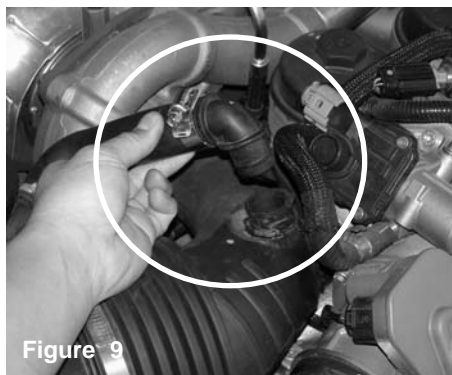


Figure 9
Break the fixed hose clamp off of the vent tube from the air duct and pull the vent line out of air duct and put it to the side. **NOTE:** some models will have a fixed 90 degree vacuum return fitting. A 90 degree vacuum fitting is supplied for these vehicles



Figure 10
You may now pull the intake turbo air duct out of the engine bay.

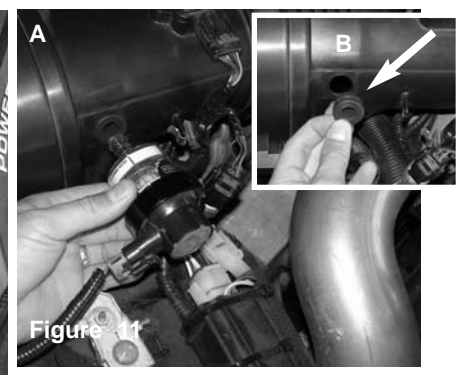


Figure 11
Figure A: Pull firmly on the restrictor gauge and remove from factory air box assembly. **Figure B:** Remove the restrictor gauge grommet from factory air box assembly. This grommet will be reused for the Injen air box assembly



Figure 12
Firmly lift up on the air box assembly and remove the air box from the engine bay. Make sure you remove the auxiliary heat tube from the air box

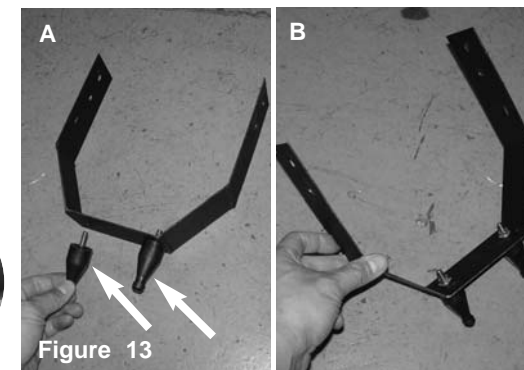


Figure 13
Figure A: Take the two stand off mounts and screw them into the two nut inserts on the air box bracket. **Figure B:** Air box bracket shown complete



Figure 14
Position the air box bracket and align the two 3/8" holes on each side of the bracket onto the two threaded inserts on each side of the air box

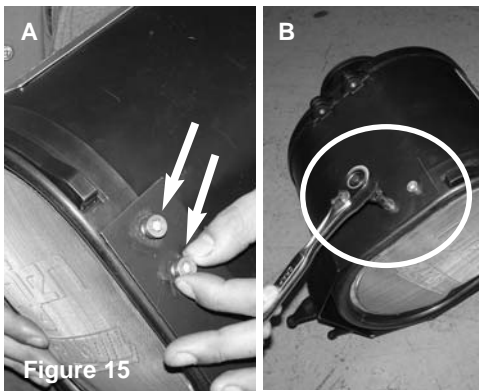


Figure 15
Figure A: Place two M8 bolt on each side of the air box to bolt the air box bracket to the air box. Figure B: Use a 5mm allen socket to tighten the bolts.



Figure 16
Air box and bracket completely assembled



Figure 17
Place the 4 5/8" straight hose onto the outlet of the air box assembly and only tighten the clamp on the air box side.



Figure 18
Position the Injen air box assemble into the factory air box location.

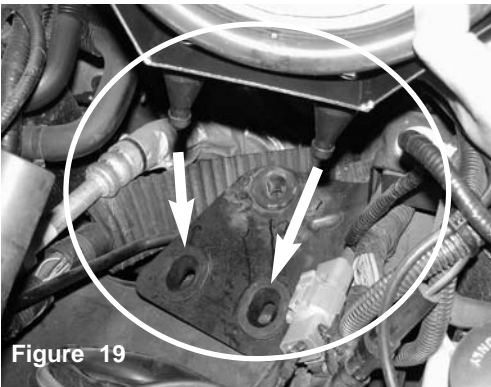


Figure 19
Make sure you align the two stand off mount on the Injen air box bracket into the factory air box grommets

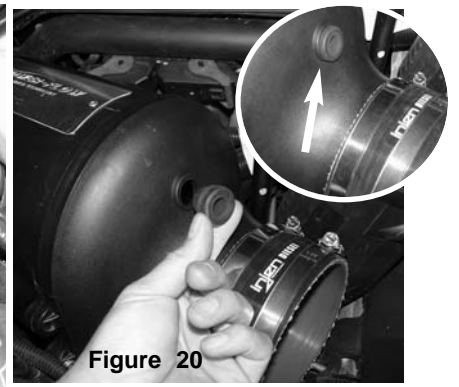


Figure 20
Reuse the factory grommet removed from the factory air box for the restrictor from figure 11 (B) and connect it to the Injen air box plenum Picture shown grommet mounted to air box plenum.

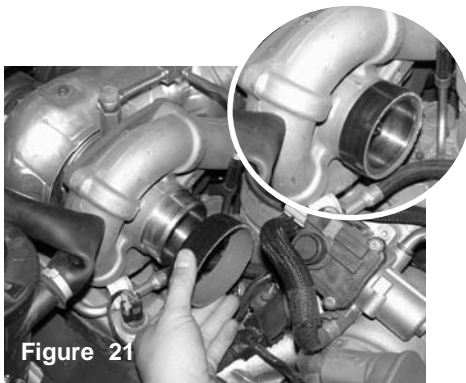


Figure 21
Place the 3.00"x1.00" Centering spacer onto the turbo compressor housing inlet. This hose is designed to go in between the turbo inlet and the Injen cast to keep it perfectly centered and free from any vibration

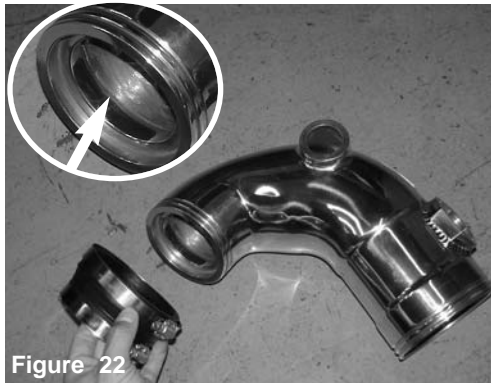


Figure 22
Place the 3.25"x4.00" step, one 064 and 056 hose onto the smaller end of the Injen cast intake. **NOTE:** notice the built in velocity stack inside the cast intake tube!



Figure 23
Step hose shown mounted on the cast intake. Now tighten the clamp on the cast intake side as shown in the photo.



Figure 23
Slip the step hose end of the cast intake over the centering spacer previously installed on the turbo inlet in figure 21.



Figure 24
Now connect the other end of the intake tube into the 4 5/8" straight hose on the Injen air box

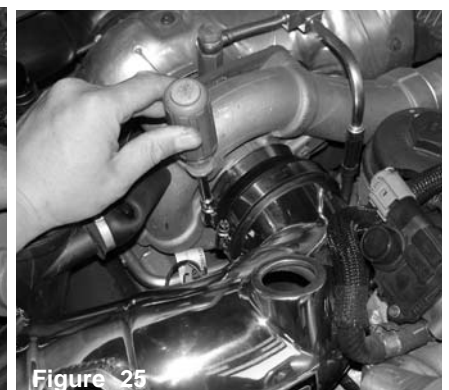


Figure 25
Tighten the clamp on the turbo inlet step hose and also the clamp on the 4 5/8" hose attaching the air box to the cast intake.

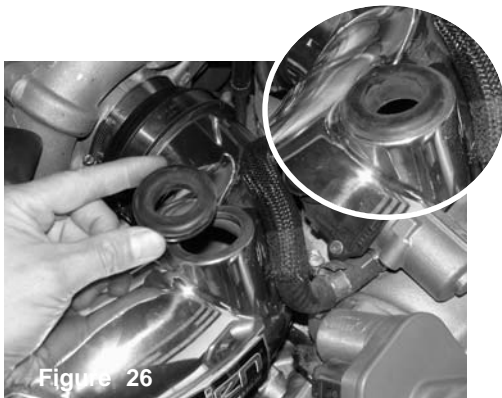


Figure 26
Place the 1.00"x1.3/4" grommet into the molded grommet mount on top of the cast intake pipe. Picture shown with grommet installed

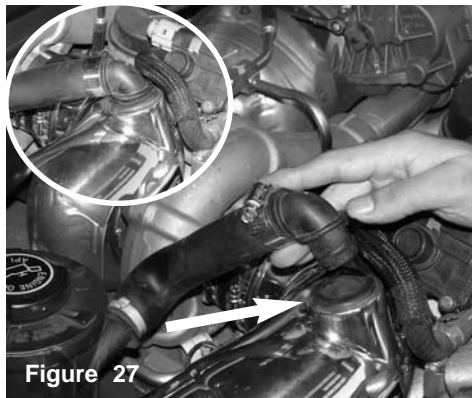


Figure 27
Attach the vent tube previously disconnected from the factory air duct in figure 9 and re-install it in the grommet.



Figure 28
Detach the mounting clip off of its bracket to give the restrictor gauge harness slack

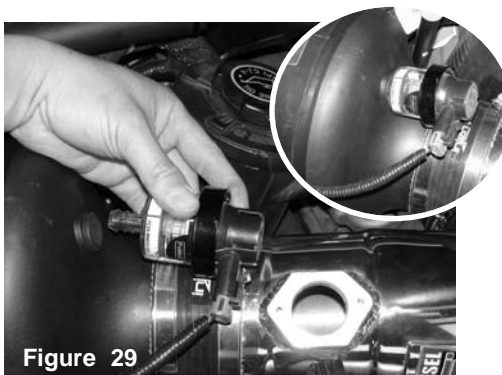


Figure 29
Connect the restrictor gauge into the grommet previously installed in figure 20. Photo shown with grommet installed in Injen intake box

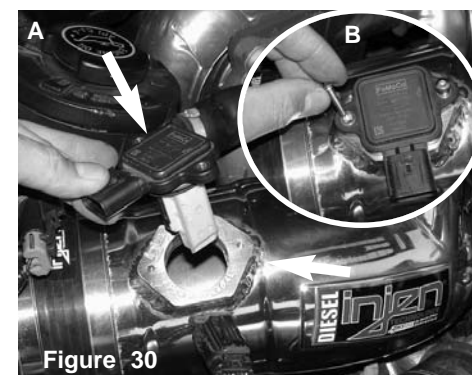


Figure 30
Figure A: Place the MAF sensor into the machined MAF sensor pad on the cast intake pipe. **Figure B:** Place two M4 button head screws into the MAF sensor

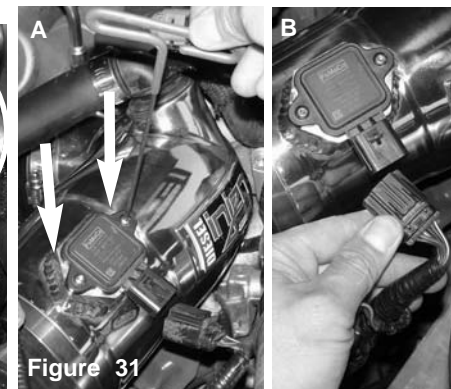


Figure 31
Figure A: Tighten the two M4 screws with a 2.5mm allen driver. **Figure B:** Plug the MAF sensor harness back into the MAF sensor.



Figure 32
Check the entire system for the best possible fit. Once you have checked the entire system for leaks, rubbing or rattling, continue to tighten all nuts, bolts and clamps. Reconnect the negative battery terminal prior to starting the engine.



Figure 33
Congratulations! You have just completed the installation of the World's first tuned intake system, the Power-Flow intake, featuring MR Technology. Periodically, check the system for fitment, this will enhance the life of your Power-Flow system.

1. Upon completion of the installation, reconnect the negative battery terminal before you start the engine.
2. Align the entire intake system for the best possible fit. Once the intake has been properly fitted continue to tighten all nuts, bolts and clamps.
3. Periodically, recheck the alignment of the intake system and make sure there is proper clearance around and along the length of the intake. Failure to follow proper maintenance procedures may cause damage to the intake and will void the warranty.
4. Start the engine and listen carefully for any odd noises, rattles and/or air leaks prior to taking it for a test drive. If any problems arise go back and check the vacuum lines, hoses and clamps that maybe causing leaks or rattles and correct the problem.
5. Check the filter for excessive dirt build up. Clean or replace the filter with an original Injen/AMSOIL filter now sold on-line at "injenonline.com"). Congratulations! You have just completed the installation of the best intake system sold on the market. Enjoy the added power and performance of your new intake system.