

# PowerFlow Box Update: New design with twist lock filter.



**IMPORTANT NOTICE:** InjenTechnology has re-designed and is releasing our new and improved streamlined PowerFlow Box to provide you with new cutting edge technology and a user friendly, easier installation and removal for filter maintenance. Please see below for Twist lock installation. Please refer to original installation instructions for PowerFlow box installation. Thank you for choosing injen technology.



Figure 1

New Power flow box assembly. Twist lock filter and PowerFlow box. Box can be rotated to be either driver side or Passenger side fitment.



Figure 2

Install the provided Twist lock filter into the PowerFlow box.



Figure 3

Once the filter is seated correctly and flat, rotate the filter 1/4" turn in either direction left or right and secure. Filter has built in lock.



Figure 4

Filter is now secured in the PowerFlow air box.



Figure 5

Above is the Driver side orientation.



Figure 6

Above is the Passenger side orientation.

**NOTE: Verify your filter before any cleaning maintenance!** Blue media filter: Dry Air Filter, no oil required. (SuperNano Web Dry filters require no oil, these can be cleaned using a vacuum or light compressed air. Please do not clean using water or injen restore kit. ) Red media filter: Factory Oiled Air Filter. (Oiled cotton gauze filters require oil, please use injen restore kit. This filter can use water or cleaning solution for maintenance.)



**Part number PF1959**  
**2005-15 Nissan Frontier**  
**2005-12 Nissan Pathfinder**  
**2005-15 Nissan Xterra**  
**V6 4.0L**

- 1- MR Tech Power-flow Intake system
- 1- Twist Lock Dry Air Filter 4" (#1108)
- 1- **PowerFlow Box kit** **A(#15143)**
- 2- **Small Injen Windows** **B(#15139)**
- 4- **Lock Washers** **C(#6109)**
- 1- **Half moon box bracket** **(#20063)**
- 1- 3 1/8 straight hose (#3054)
- 1- CCV box connecting hose (#3112)
- 2- medium clamps (.362) .048 (#4004)
- 2- small clamps .016 (#4017)
- 1- 6mm flange nut (#6002)
- 3- Fender washer (#6011)
- 1- 5/8 Vinyl cap (#8023)
- 1- 6mm Vibra- mount (#6020)
- 1- **CCV breather box** **(#6057)**
- 2- m6 x 10mm button head bolts (#6083)
- 1- Instruction (5 Pages)

**Only 2005-08 Models CARB legal. CARB E.O.**

**Excludes Xterra Models**

**Note:**The C.A.R.B. Exempt sticker must be attached under the hood in a manner such that it is easily viewed by an emissions inspector

**Congratulations! You have just purchased the best engineered, dyno-proven Power-Flow air intake system available.**

**Please check the contents of this box immediately.**

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

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.

**Please check the contents of this box immediately.**

**Note: This intake system was Dyno-tested with an Injen filter and Injen parts the use of any other filter or part will void the warranty and CARB exemption number.**

Note: The installation of this cold air intake does require mechanical skills. Removal of the front bumper requires loosening and removing several plastic plugs and screws that may be difficult. It is recommended that this system be installed by a professional mechanic. Be sure to disconnect the negative terminal before proceeding.

**Congratulations! You have just purchased the worlds first tuned intake system.**

**MR Technology, Leading the way!**

Patent pending

**POWER-FLOW: An air intake evolution**



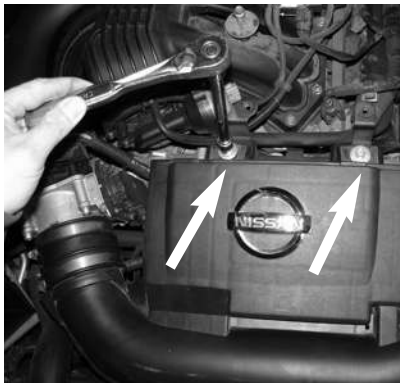
Picture of factory air intake system



Use a 10mm socket with a 3/8 ratchet and remove the two 10mm bolts on the engine cover.



Lift up and pull towards you to remove the engine cover. This cover is removed to access the two 10mm bolts to the air duct resonator box/



Loosen and remove the two 10mm bolt located on the air duct resonator box.

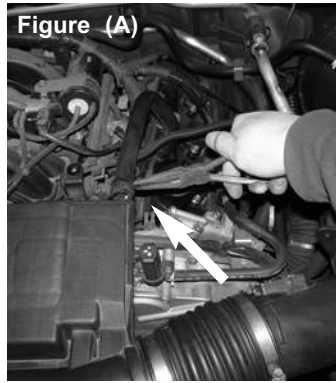


Figure (A)



Figure (B)

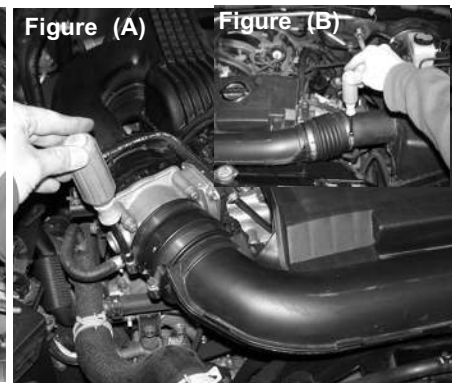


Figure (A)

Figure (B)

Use a 8mm nut driver to loosen clamp on throttle body side air duct (Figure A) and air box side (figure B)



With both clamps loosened, remove entire air duct with the air resonator box attached.

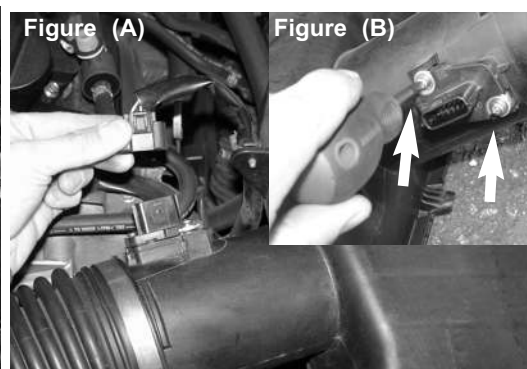


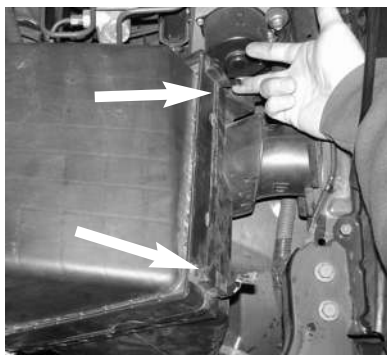
Figure (A)

Figure (B)

Unclip air mass sensor harness (Figure A) and then use a phillips screw driver to remove the two screws holding the MAF sensor to the housing. These screws will be reused.



Now remove the MAF sensor out of the factory air box sensor housing. This MAF sensor will be reused later.



Unclip two retaining tabs holding the upper part of the air box to the lower part of the air box

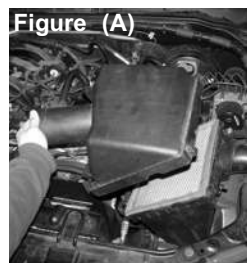


Figure (A)



Figure (B)

Remove upper part of air box (Figure A) and remove panel filter to get to 10mm bolt located inside of air box (Figure B)



Figure (A)

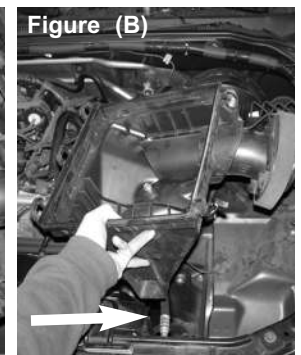
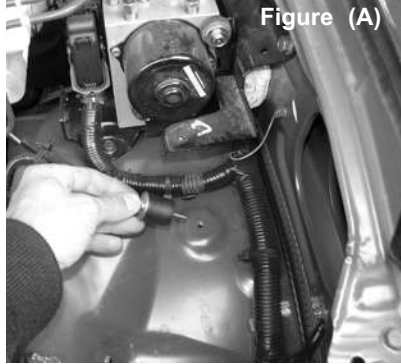


Figure (B)

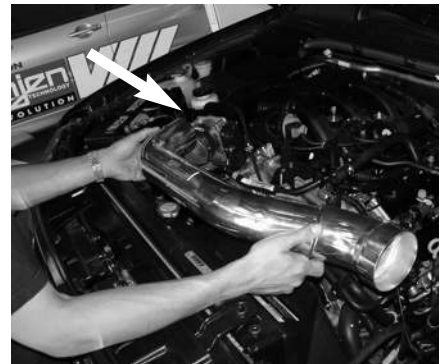
Remove 10mm bolt located on the right upper portion of the air box (Figure A). Lift air box up and off the lower grommet located at the bottom of the air box. Stock air box component removal is now complete.



Place the 3/8 straight hose over the throttlebody and place twomedium (362) clamps over the hose, tighten only the clamp on the throttlebody side for now



Place the vibramount onto the pre-tapped hole located next to the ABS solenoid pump. (Figure A) Vibramount mounted on pre-tapped hole. (Figure B) This vibramount will be used for the mount point for the Injen airbox.



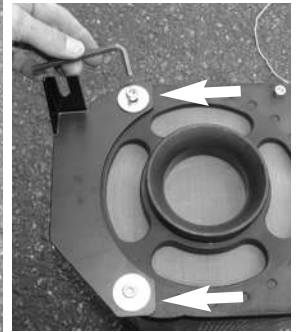
Lower the Injen intake pipe into the engine bay and place the 2.75" pipe end into the 2.75" straight hose already on the throttlebody.



Place the MAF sensor onto the sensor pad on the Injen intake pipe. (Figure A) Re-use the two MAF screws to mount the MAF sensor on the sensor pad. (Figure B) Re-connect the MAF sensor harness, make sure you press firmly.



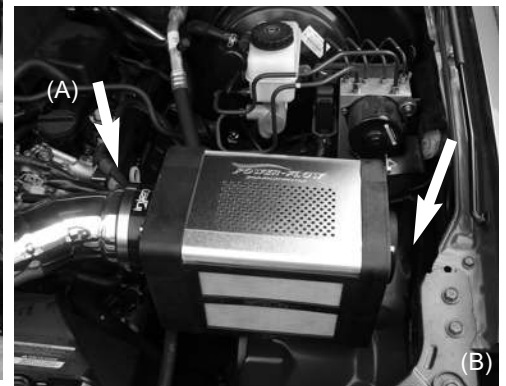
Secure the bracket to the PowerFlow box using provided M6 screws. Then align the mounting bracket onto this location.



Reuse the 45mm bolts and use two supplied fender washers to mount the bracket onto the box.



Postion Power-flow box in the engine compartment and press four inch hose over the intake inlet as shown in this picture .



The four inch velocity stack base is connected to the intake (A) and the Power box bracket is lined up to the vibra-mount stud (B).



Align the Power box mounting bracket to the vibra-mount stud and use the m6 nut and fender washer to secure the box in place.



Here is a side view of the Power box installed and connected to the vibra-mount stud and air intake inlet.





Take the CCV connecting hose and press it over the CCV box large port. Two clamps will be placed over the hose.



Once both clamps have been placed over the hose be sure to tighten the first clamp nearest to the CCV box.



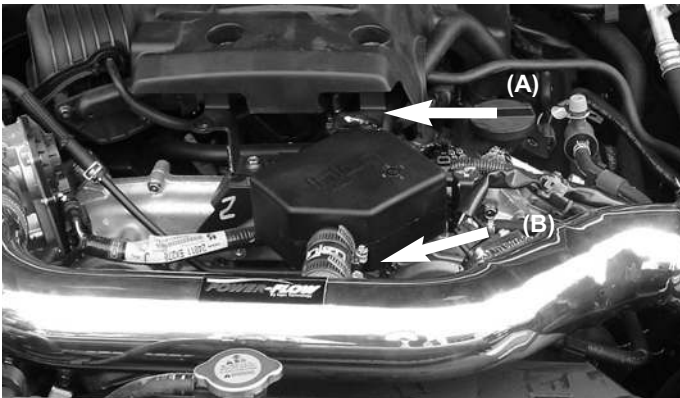
Press CCV box 5/8" vacuum cap over left port which will not be used.



Press the CCV box over the large intake port, adjust and tighten clamp as shown in the picture.



Insert crank case breather line over CCV box port and use stock clamp to secure breather line.



The driver side crank case breather line has been connected to the CCV box. (Figure A) All clamps have been tightened to secure all lines. (Figure B)



Side shot of CCV box vacuum cap and CCV box installed.



Check the alignment and fitment of the entire Power-Flow intake and Power box. Once you have check for possible air leaks, rubbing or rattling, continue to tighten all nuts, bolts and clamps.



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 filter .  
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.