

PowerFlow Box Update: New design with twist lock filter.



IMPORTANT NOTICE: InjenTechnology has re-designed and is releasing our new and improved stream-lined 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.) **Please visit injen.com for filter cleaning instructions.**



“The World’s First Tuned air Intake System!”
Factory safe air/fuel ratio’s for Optimum performance
Injens tuning process covered by three U.S. Patents

- Part number PF8051
 2009-18 Dodge Ram 1500
 2019-23 Dodge Ram 1500 Classic
 5.7L V8 Hemi
- 1- MR Tech Power-flow Intake system
 - 1- Twist Lock Dry Air Filter 3.5” (#1114)
 - 1- **PowerFlow Box kit** **A(#15143)**
 - 2- **Small Injen Windows** **B(#15139)**
 - 4- **Lock Washers** **C(#6109)**
 - 1- **Lower Powerbox bracket** **(#20108)**
 - 1- **Upper Powerbox bracket** **(#20109)**
 - 3- M6 x 10mm button head bolts (#6083)
 - 1- 3 1/2” straight hose (#3037)
 - 2- Power-Band .056 .412 (#4005)
 - 1- Temp sensor grommet (#8026)
 - 1- Bracket grommet (#8002)
 - 1- 9”-17mm Vac. hose (#3217)
 - 1- 7 Page instructions
- Note: All parts and accessories are sold online a **“injenonline.com”**
- 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 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.

Injen Technology 244 Pioneer Place Pomona, CA 91768 USA
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.
 Parts and accessories are available on line at “Injenonline.com”

Warning: Manufactures attempting to duplicate Injen’s patented process will now face legal action.

MR Technology Step down process:

- 1- Calibration Method for Air Intake Tracts for Internal Combustion Engines. Covered under Patent# 7,359,795
- 2- Calibration Device for Air Intake Tracts for Internal Combustion Engines. Published and patent pending
- 3- Calibration Method and Device for Air Intake Tracts having Air Fusion Inserts Published and patent pending

Note: Injen strongly recommends that this system be installed by a professional mechanic.

Tools required:

- 1- 8mm nut driver
- 1- 8mm socket
- 1- 10mm socket
- 1- 13mm socket
- 1- ratchet
- 1- ratchet extension
- 1- set of allen wrenches



Figure 2

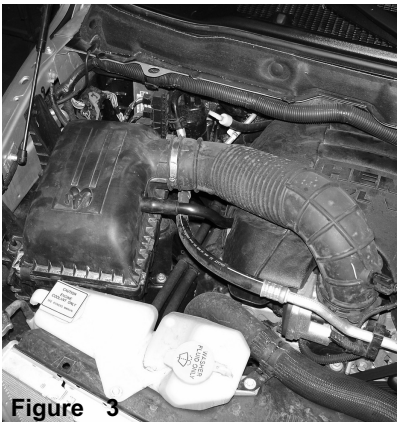


Figure 3
Stock engine compartment and factory air box.

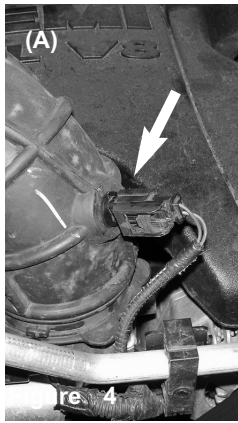


Figure 4 (A) Stock air temp sensor on factory air duct.
Figure 4 (B) Unclip harness from from air temp sensor.

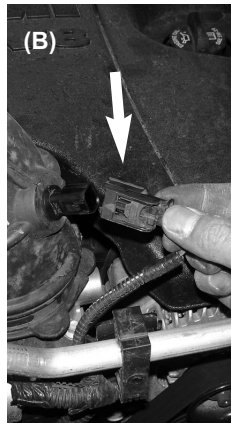


Figure 5 (A) Air temp sensor with harness removed
Figure 5 (B) Firmly pull air temp sensor out of factory air duct. This sensor will be re-used later.

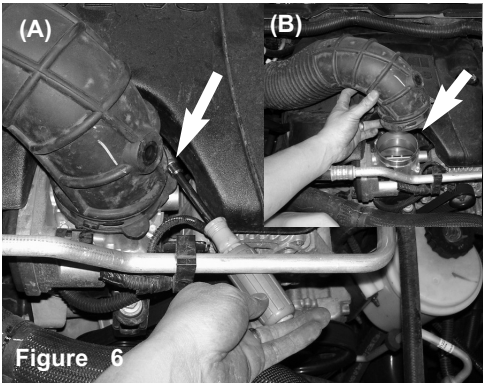


Figure 6 (A) Use a 8mm nut driver and loosen clamp on air duct connected to throttlebody.
Figure 6 (B) Pull air duct off of throttlebody

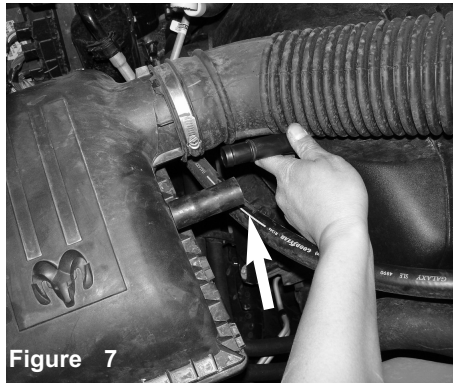


Figure 7 Disconnect the crank case ventilation tube from the factory air box cleaner.

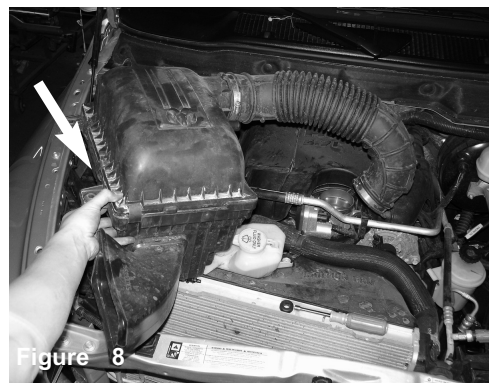


Figure 8 Lift factory air box cleaner and pull entire air box and air duct assembly out of engine bay.

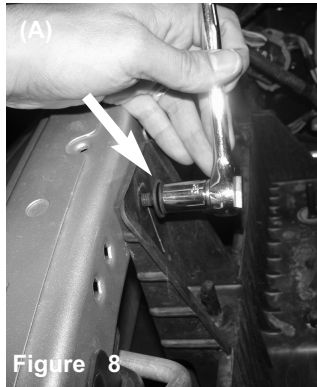


Figure 8 (A) Loosen the bolt holding in the air box plastic bracket closes to the headlight.
Figure 8 (B) Remove the bolt and save for the bracket install.

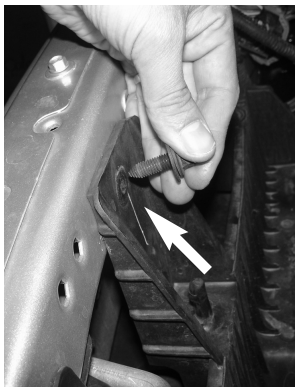


Figure 22 Install the bracket p/n:x-20109 to the power-flow box. Make sure its install to the back side of the power flow box. Install grommet to the bracket hole.

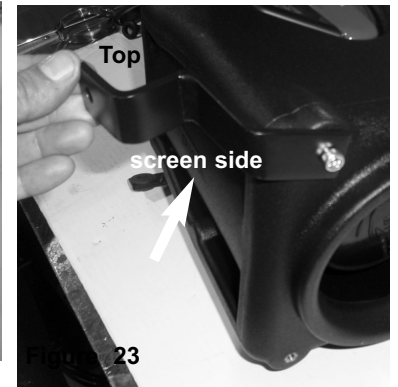


Figure 23 Now install the bracket p/n:20108 to the front of the powerflow box.

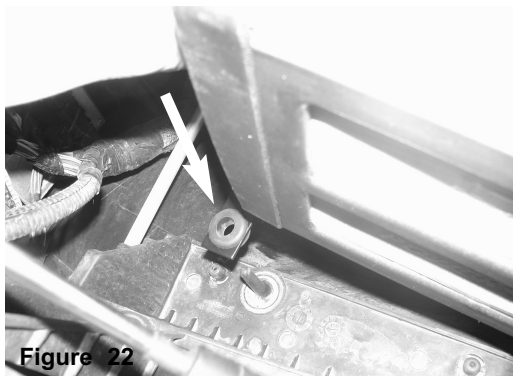


Figure 22 Lower the entire air box assembly into the engine bay and place the grommet on bracket to the factory air box stud.

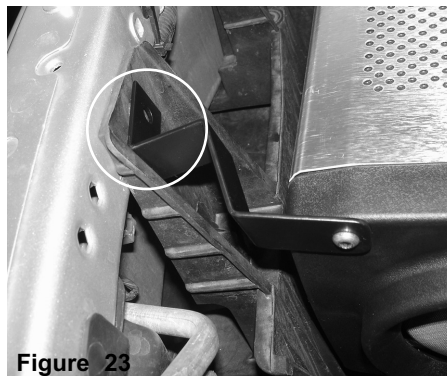


Figure 23 Position the bracket to the hole from step 8. Secure the bracket using factory screw.

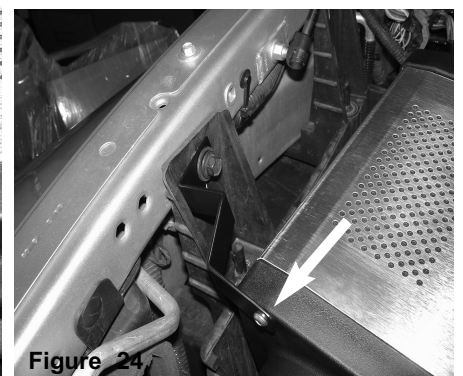


Figure 24 Loosen the bolt on the powerflow box and tighten to re-position if necessary.



Figure 25

Install the 3-1/2" step hose with clamps provided to the throttle body.

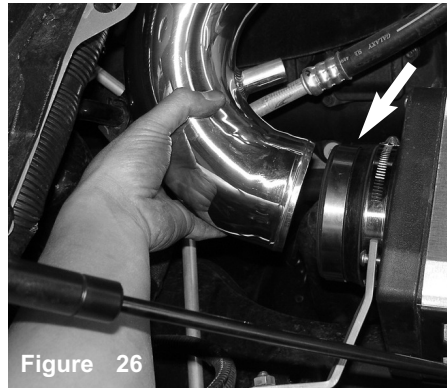


Figure 26

Now install the intake tube to the vehicle and position.

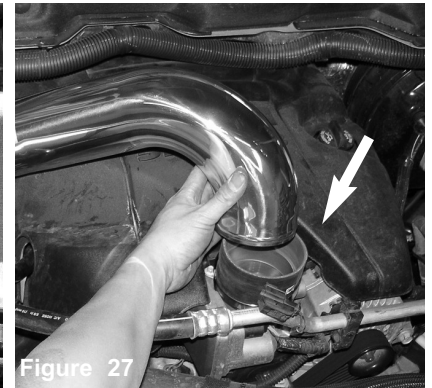


Figure 27

Insert the intake tube into throttle body hose. Do not tighten at this point.

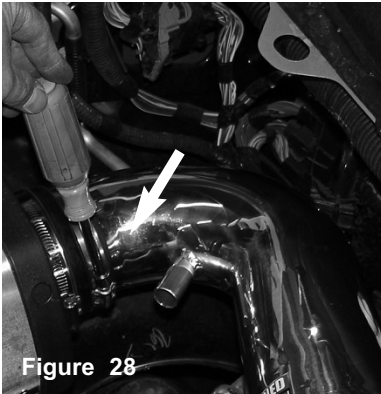


Figure 28

Position Intake tube to proper fit and tighten clamp on power flow box using 8mm nut driver.

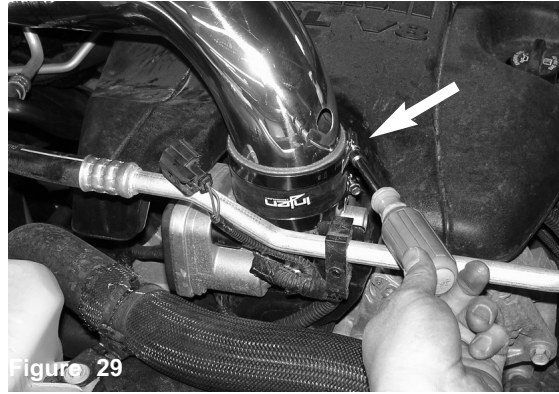


Figure 29

Tighten clamps on throttle body using 8mm nut driver.



Figure 30

Install provided grommet to the 3/4" hole on intake tube.



Figure 31

Insert the temperature sensor into grommet.



Figure 32

Re-connect electrical temperature sensor harness.

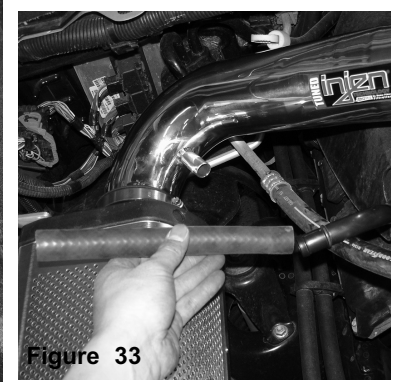


Figure 33

Install provided 17mm crank case line to crank case hard line.



Figure 34

Press the hose over the Intake vacuum port.



Figure 37

Check the entire air intake system for best possible fit, once proper clearance has been made through out the length of the intake, 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, failure to do so will void the warranty.

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 (can be bought 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.