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 maintainance. Please see below for Twist lock installation. Please refer to original installation instructions for PowerFlow box installation. Thank you for choosing injen technology.



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



Install the provided Twist lock filter into the PowerFlow



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.



Filter is now secured in the PowerFlow air box.



Above is the Driver side orientation.



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.



Part number SP6080 2003-11 Mazda RX8 Rotary 1.3L

1- Short Ram intake tube	(W-SP6080)
1- Twist Lock Dry Air Filter 3.50	" (#1114)
1- PowerFlow Box kit	(#15143)
2- Small injen Windows	(#15139)
4- Lock Washers	(#6109)
1- Front mounting panel	(#11045)
1- passenger side panel	(#11046)
1- driver side panel	(#11047)
1- 3 1/4" x 3 1/2" T/B step hose	
2- #56 Clamps	(#4005)
2- M4 x 10mm button head	(#6047)
2- M6X20 button head screws	(#6073)
4- M6X12 socket cap screws	(#6056)
2- 5mm vacuum cap	(#8004)
1- 8mm vacuum cap	(#8005)
2- zip tie	(#8001)
1- 7 page instruction	

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
 Published and patent pending

Congratulations! You have just purchased the best engi-neered, dyno-proven cold air intake system available.

Please check the contents of this box immediately.

Report any defective or missing parts to the Authorized Injentechnology 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 285 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

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 when the vehicle is required to be tested for emissions.

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

MR Technology, "The World's First Tuned air Intake System!"

Factory safe air/fuel ratio's for Optimum performance Patent# 7,359,795
Now equipped with "Air Fusion" Patent pending

"At Injen Technology, we didn't copy the step down process, We invented it!"





Stock box shown in this picture



OPTIONAL: Loosen and remove the two 12mm nuts located on the each strut tower mount. Once you have removed all four 12mm nuts, continue to removed the strut tower bar.



All four 12mm nuts have been removed and the strut tower bar is now pulled out.



pull up on the stand offs located in front of the engine cover. A slight tug up will be required to pull the stand offs out of the stock grommet.



Depress the tab on the green electrical clip and pull the clip from the vacuum switching valve. **Note:** on automatic transmissions, skip step and go to figure 8.



Disconnect the electrical sensor harness from the mass air flow sensor.



Unscrew and remove the two screws that fastens the mass air flow sensor to the sensor housing.



Once both screws have been removed, continue to pull the mass air flow sensor from the sensor housing.



Loosen the clamp on the throttle body air hose as shown above.



Remove the stock grommets from the air box cleaner. To be used later in the instructions.



All three vacuum lines are disconnected from the air intake duct connected to the throttle body. **Note:**Some models only have two vacuum lines.



All three vacuum lines have been disconnected from the air intake duct.

Intake manifold port



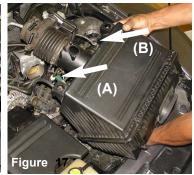


The vacuum line leading from the air box canister to the intake manifold port is removed (A). The vacuum cap supplied is used to cap off manifold port (B). Note: The canister will be removed for this application. For automatic transmisions go to figure 17.



The vacuum line leading from the air box vacuum switching valve is disconnected from the hard line found under the air box. A 5mm vacuum cap is used to cap the hard line

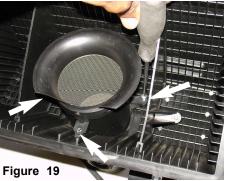
air box cleaner removed



Once lines and clamp are removed, pull entire air box out of the engine compartment. The vacuum switching valve (A) is removed and the canister (B) is removed



Unlatch the metal clamps on the lower air box cleaner. Once you have removed the clamps, continue to pull the upper air box from the lower air box.



Once the top box has been removed, continue loosen and remove all three screws securing the air horn to the lower air box.



Once all three screws have removed, continue to remove the air horn from the air box.



Here is the air horn and three screws that have been removed from the lower air box cleaner.



Remove the 3 3/4 " OD metal screen from the lower air box as shown above. Save for later install.



With provided M6X12 socket cap screws secure the front mounting bracket to the top of the power flow



MAke sure the powerflow box is like the above image. Top side up.



Now install the 3-3/4 metal screen into the filter



Place the metal screen inside until it hits the built in stop.



The lower air box nuts are loosened and removed in order to place the new power box. The first nut is now removed



The second nut is now removed.



Install the step hose with clamps provided. Tighten the clamp on the throttle body side.



Insert the intake tube into the filter on power flow box as shown above. The assembled air intake and power box is ready to be installed. Tighten clamp on filter using 8mm nut driver.



The assembled power box is lowered into the engine compartment and the intake is pressed into the throttle body step hose.



Position intake like image above.



The front mounting panel tabs are aligned to the studs as shown above.



The stock nuts are used to fasten the mounting panel to the crossmember radiator support. Use a ratchet and socket to tighten the nut on the passenger and driver side front mounting panel. Secure and tighten.



Place the passenger side and driver side panel on top and secure to the back of the power flow box using provided M6X12 socket cap screws.



Secure the front of the panels using provided M6X20 button head screws. Secure and tighten all screws on both sides of the panels.



The stock grommet are removed from the stock air box and inserted into the pre-drilled holes on the top air panels.



The two lower vacuums lines are pressed over the lower intake ports as shown above.

NOTE: Some models may only have 2 vacuum lines. The supplied 8mm vacuum cap will be used to cap off the extra port on the intake tube.



The upper vacuum hose is aligned to the upper intake port. NOTE: Some models may only have 2 vacuum lines. The supplied 8mm vacuum cap will be used to cap off the extra port on the intake tube.



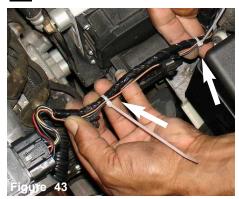
The upper vacuum hose is installed on the upper intake port. NOTE: Some models may only have 2 vacuum lines. The supplied 8mm vacuum cap will be used to cap off the extra port on the intake tube.



Install the MAf sensor into the new intake tube.



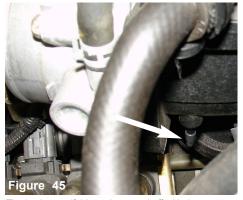
Secure using provided M4 button head scerws



The zip ties are used to secure the harness lines and the green sensor clip removed from the vacuum switching valve which is no longer used.



The 5mm vacuum cap is used to cap off the intake manifold port.



The intake manifold port is capped off with the vacuum cap provided. Another reminder to make sure that vacuum caps have been



The strut tower bar is replaced to stock position. Use a socket and ratchet to fasten the flange nuts over the strut tower bar.



Re-install the engine cover.



Align the entire intake for best possible fit. Once you have aligned and made sure that the length of the intake is free from any moving parts, continue to tighten all nuts, bolts and clamps. Congratulations! You have just completed the installation of this intake system. Periodically, check the alignment of the intake, normal wear and tear can cause nuts and bolts to come loose. Failure to check the alignment and adjust the intake can cause damage that will void the warrantv.

- **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 mainentance 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.

 Page 6 of Part# SP6080