Part number PF1800
2006 Mitsubishi Raider
2005-06 Dodge Dakota
4.7L V8

1- MR Tech Power-Flow intake	
1- 3 1/2" filter with inverted top	(#1021)
1- 3 1/4" straight hose	(#3045)
1- 3/4" long 12mm sensor stub	(#3080)
1- m6 vibra-mount	(#6020)
1- m6 flange nut	(#6002)
1- Fender washer	(#6010)
1- Diamond-plate power heat shield	(#11037)
3- 5/16" flange bolts	(#6019)
3- Composite heat shield brackets	(#4010)
2- Power-bands **(.412)** .056	(#4005)
1- Instruction	

Note:
This intake system has been tested and tuned using this specific filter. Changing the filter to another brand will change the air/fuel ratio that can be damaging to your engine.

Tools required:

1. 10mm socket
1. Ratchet
1. 10mm nut driver
1. 8mm nut driver

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. In addition to removing the bumper, you will also have to remove the air resonator box, battery and tray when beginning this installation. **Injen strongly recommends that this system be installed by a professional mechanic.**

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

Optimum performance, Factory safe air/fuel ratio.

Patent Pending

Figure 1

Hydro-shield
Part# X-1037

Actual intake and diamond plate heat shield enclosed in this kit.


Figure 2

Disconnect the crank case vent hose from the air box cleaner port as shown above.

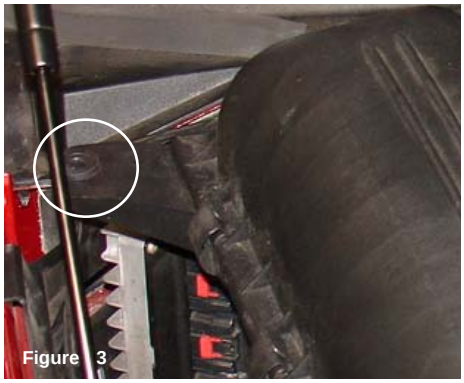


Figure 3

Remove the lock nut located on the mounting brace on the air box cleaner.

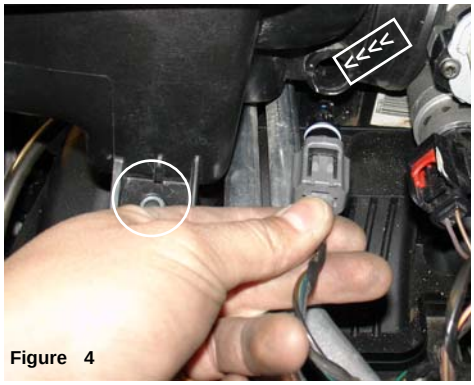


Figure 4

The arrow indicate where the sensor has been removed and placed to one side Now, the first intake plenum mounting bolt is removed, the bolt is located on the driver side as indicated by the circle.

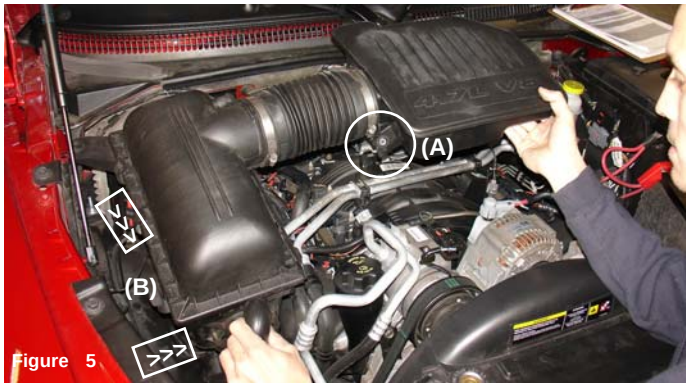


Figure 5

Remove the second intake plenum mounting bolt as shown above (A). Now lift remove the intake plenum from the throttle body. As the plenum is pulled from the engine compartment, the air box cleaner is also pulled from the two mounting grommet located on the wheel well fender (B).


Figure 6

Press the 3 1/4" straight hose over the throttle body. Place two power bands over the straight hose, tighten only the clamp located over the throttle body side as shown above.


Figure 7

Remove the foam insulator located on the fender wall.

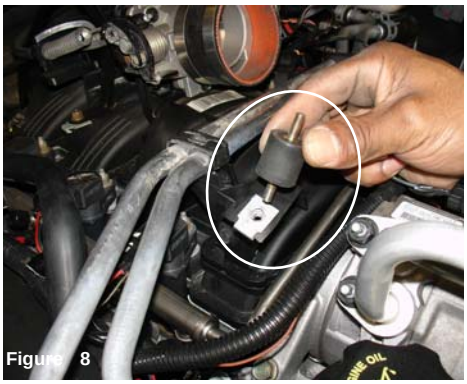


Figure 8

Align and screw the vibra-mount into the pre-tapped metal clip on the intake manifold.


Figure 9

The vibra-mount is screwed in place until it has bottomed out.

Figure 10

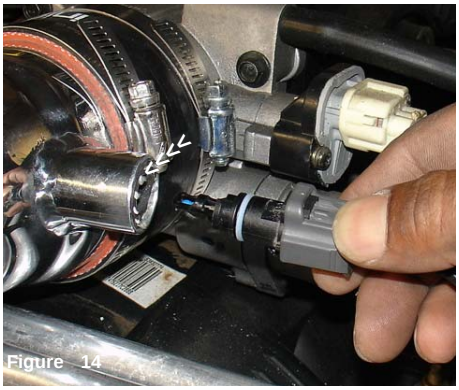
The new intake is now aligned and the upper end is pressed into the throttle body hose.


Figure 11

As the upper end of the intake is pressed into the throttle body hose, the intake bracket is aligned to the vibra-mount stud.

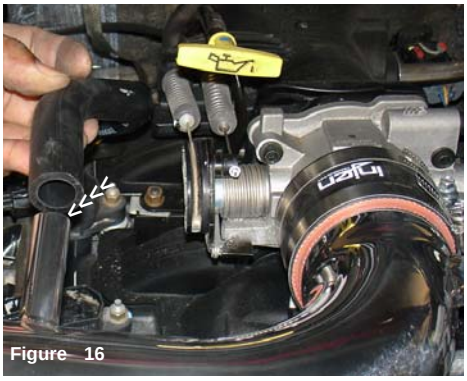
Use the m6 flange nut and fender washer to fasten the intake in place.

Take the 3/4" - 12mm sensor stub and press it into the 3/4" sensor port. The sensor stub will sit flush in the sensor port inner diameter.



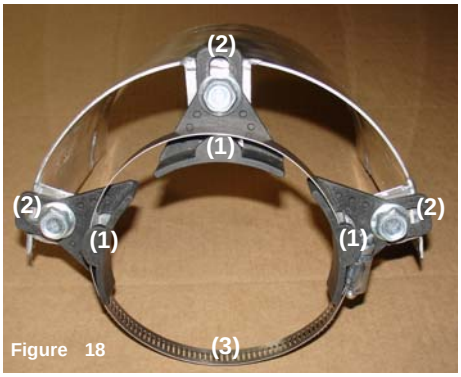
The 12mm sensor stub is now sitting flush in the sensor port and the air temperature sensor is now pressed into the 12mm sensor stub.

The air temperature sensor is now firmly pressed into the sensor stub.



The crank case vent hose is pressed over the long intake vacuum port.

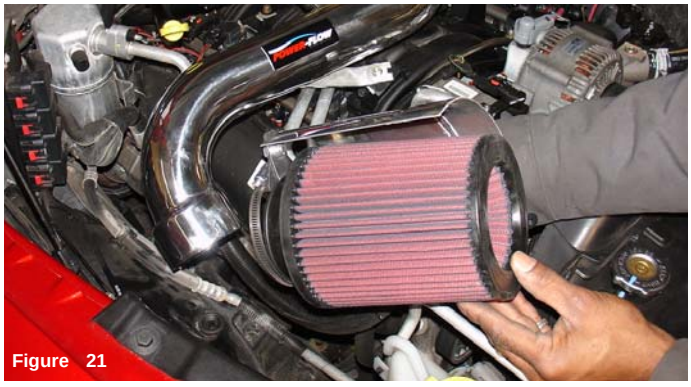
The crank case vent hose has been installed over the intake vacuum port as shown above.



One by one, the composite brackets (1) are lined up to the heat shield tabs and a 5/16" flange bolt (2) is used to secure the bracket in place. The filter clamp is opened and set over the composite brackets (3).

Take the filter and slip it into the metal clamp between the composite brackets.

Adjust the clamp so that it sit between the filter beads located on the filter neck.



With the filter clamp loose, press the entire filter assembly over the intake end as shown above.

The entire filter assembly is adjusted for the best possible fit. Once the heat shield and filter have been adjusted, continue to tighten the filter neck clamp.

Figure 23

Align the entire intake assembly for the best possible fit. Once the intake, filter and heat shield have been adjusted and cleared from any moving parts, continue to tighten all nuts, bolts and clamps.

Figure 24

Periodically, Check the fitment of the intake system. Check all lines, clamps, bolts and filter parts for any possible misalignment. The filter should also be checked and cleaned every 5000 to 7500 miles. Hydro-shields are also sold on-line that will help extend the life of your filter.

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.