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MR Technology Step down process:

- 1- Calibration Method for Air Intake Tracts for Internal Combustion Engines. Patent# 7,359,795
- 2- Calibration Device for Air Intake Tracts for Internal Combustion Engines. Patented
- 3- Calibration Method and Device for Air Intake Tracts having Air Fusion Patented
- 4- Tuning Method and Device for intake tracts having built-in Air Filter Horns patent pending

Injen is the first and only intake manufacturer that tunes and controls air/fuel ratios, short/long term fuel trim levels using the MR step down process, Air Fusion and built-in air intake horns.

- Part number SP1321
2009-10 Kia Forte 2.4L 4 cyl.
6 speed
- 1- One piece cold air intake equipped with the patented air horn
 - 1- 3" Web nano-fiberdry (#1014) dry filter
 - 1- 90 deg. silicone elbow (#3173)
 - 2- Power-bands 40/.312 (#4003)
 - 1- 17" - 10mm vac. hose (#3077)
 - 1-m6 vibra-mount (#6020)
 - 1- m6 flange nuts (#6002)
 - 1- Fender washer (#6010)
 - 1- air box cover plate (#11057)
 - 1- 5 page instruction

**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" Patented

This intake system is equipped with the first ever Air Intake Horns Patent pending



Figure 1



Figure 2



Figure 3

Stock air box cleaner and air ducts shown in this picture. Before getting started with the installation, be sure to disconnect the negative battery terminal.

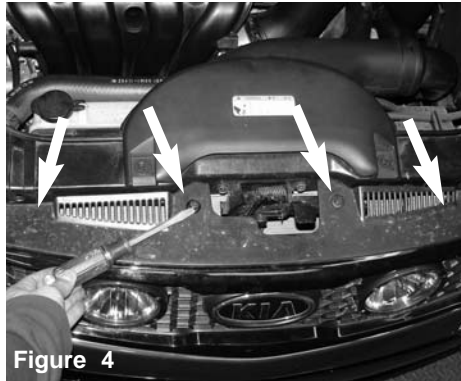


Figure 4

Loosen and remove the four plastic clips from the front shroud cover.

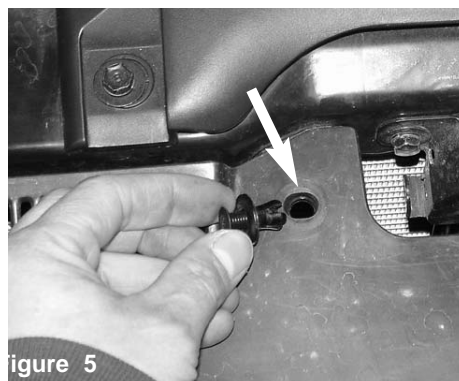


Figure 5

Close up of plastic clip being removed



Figure 6

Unscrew and removed the 8mm screw under the passanger and driver side wheel well.

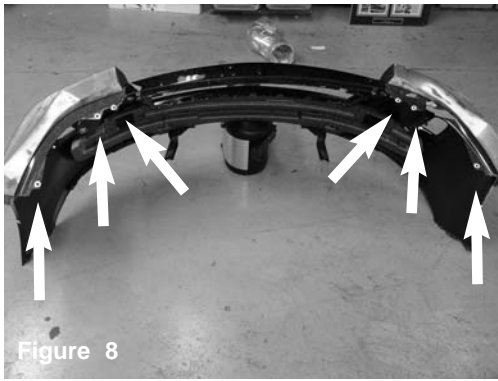


Figure 8

Bumper shown removed from vehicle showing 6 additional clips that will need to be removed from the bottom.



Figure 7

Once all plastic clips and screws have been removed continue to pull the front bumper off

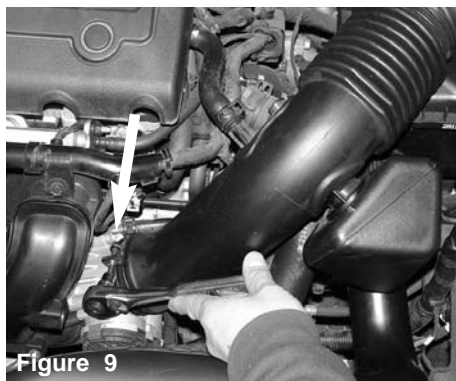


Figure 9

Loosen the throttle body clamp as shown above.



Figure 10

Using a pair of needle nose pliers, compress clamp on the crank case port underneath the engine cover and pull the clamp back.

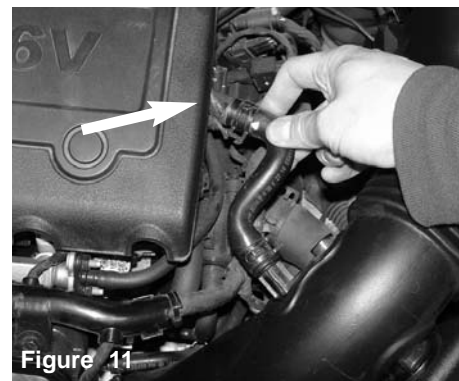


Figure 11

The clamp on the crank case has been pulled back, now continue to pull the breather hose off the crank case port.

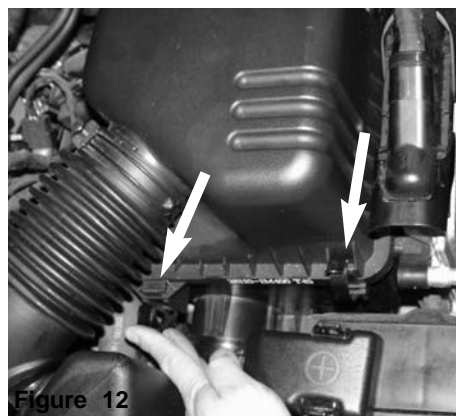


Figure 12

On the lower part of the airbox, pull back on the two retaining clips holding the top of the air box to the lower portion of the airbox

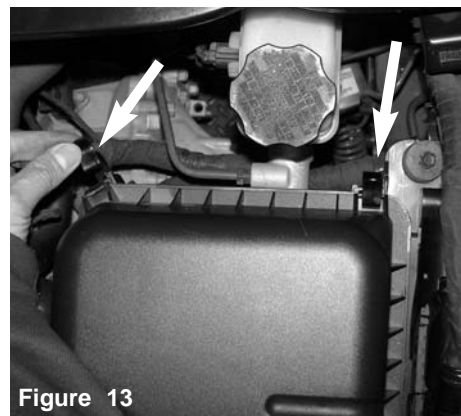


Figure 13

Now on the upper part of the air box, pull back on the retaining clips.



Figure 14

With all four retaining clips loose, remove the entire upper portion of the air box and air duct.

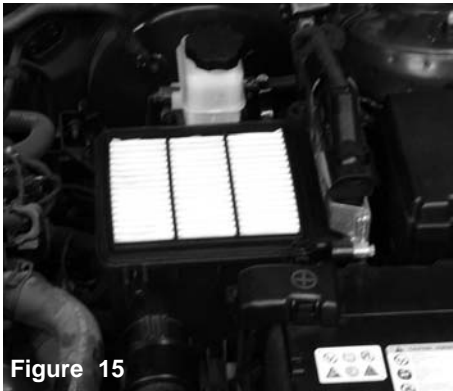


Figure 15

Once the upper portion of the air box is removed, you now have access to the air filter element.

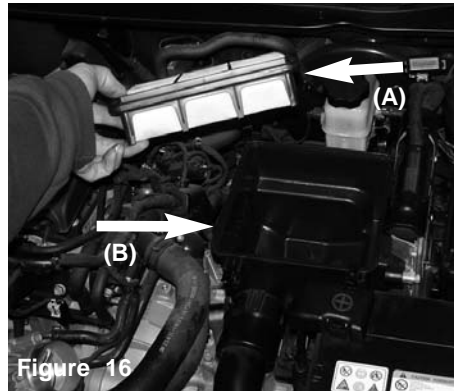


Figure 16

Remove the air filter element. (A) Lower portion of the air box will be retained to keep the ECU cool

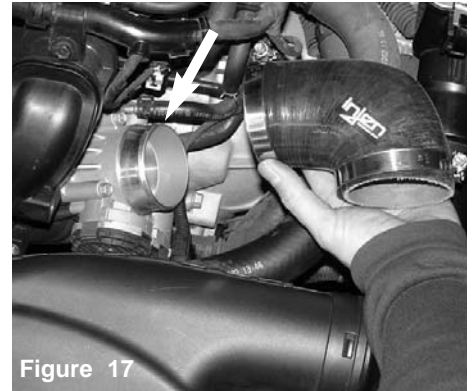


Figure 17

Place the 2.75" 90deg. elbow with 2 clamps onto the throttlebody. Make sure you have the long end of the 90 deg. hose on the throttlebody side.



Figure 18

Now snug the clamp on the throttlebody side, make sure you leave it slightly loose to make some adjustments later

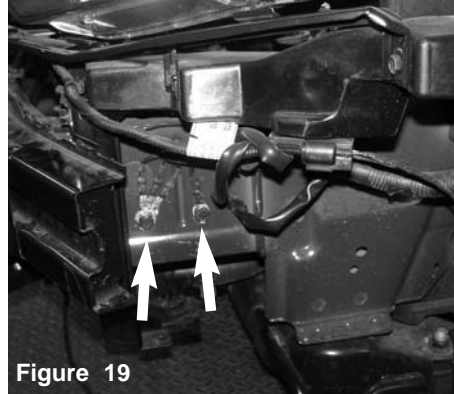


Figure 19

Locate a set of ground wires located under the drivers side headlight, behind the bumper support.

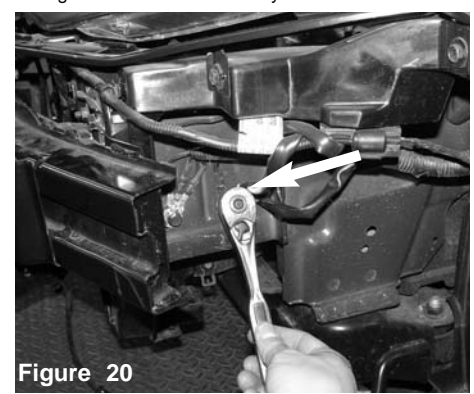


Figure 20

Loosen and remove the 10mm bolt on the right ground wire only. This wire will be relocated to the set of ground wires on the left.

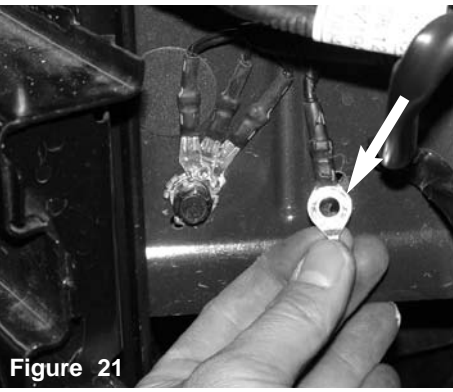


Figure 21

Ground wire that needs to be relocated shown above

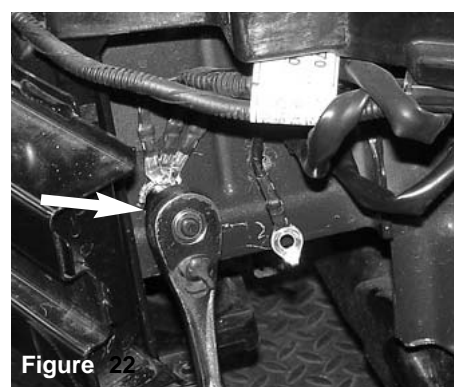


Figure 22

Now loosen the 10mm bolt securing the left set of ground wires

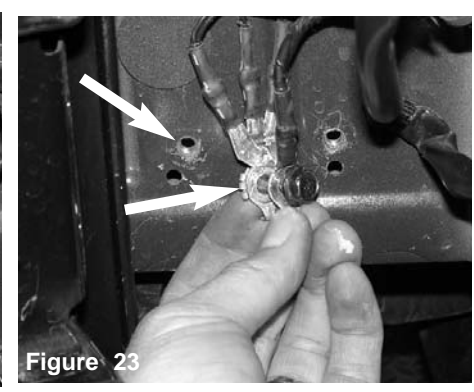


Figure 23

Place both set of ground wires together and mount them back to the left side



Figure 24

Now tighten the 10mm bolt to the frame

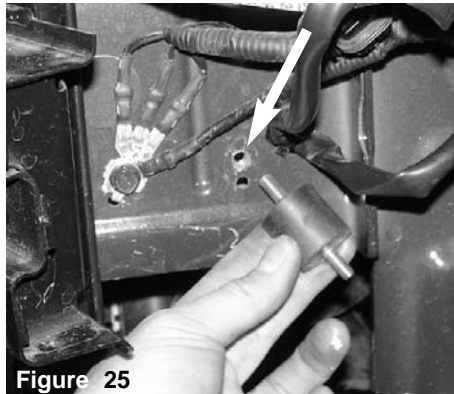


Figure 25

Place the vibramount onto the pre-threaded hole the right ground wire was once located.

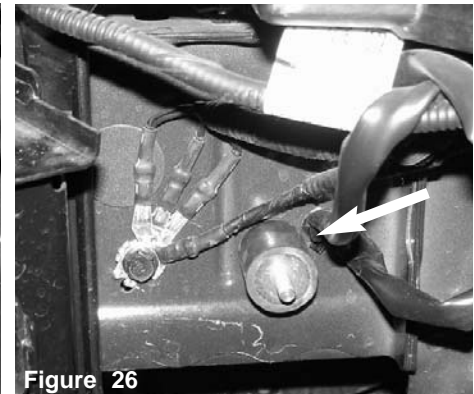


Figure 26

The vibramount mounted to the frame

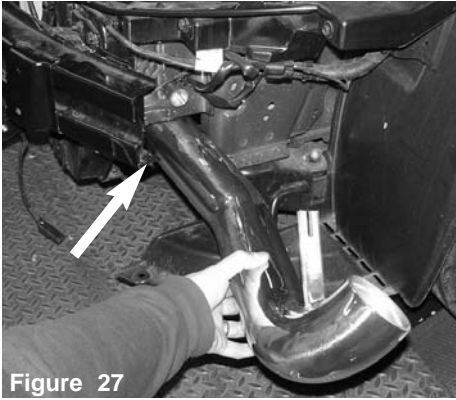


Figure 27
The intake pipe will be inserted from the bottom, behind the bumper support.

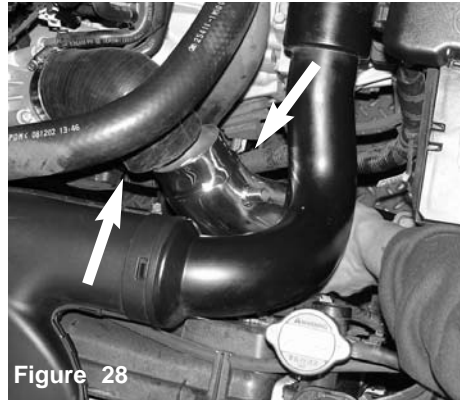


Figure 28
Slide the intake pipe from the bottom and work the pipe into the 90 deg. hose already located on the throttlebody.



Figure 29
With the pipe in place, make your final adjustments for the best fitment and then tighten both clamps on the 90 deg. elbow located on the throttlebody.

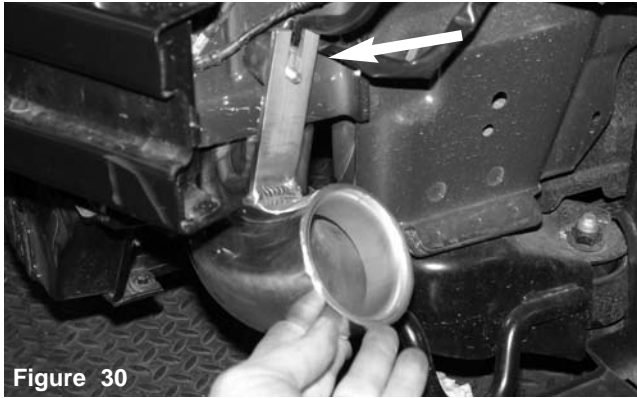


Figure 30
With the intake pipe in place, make sure the lower intake bracket lays flush with the vibramount



Figure 31
Place the fender washer and the M6 flanged nut over the bracket.

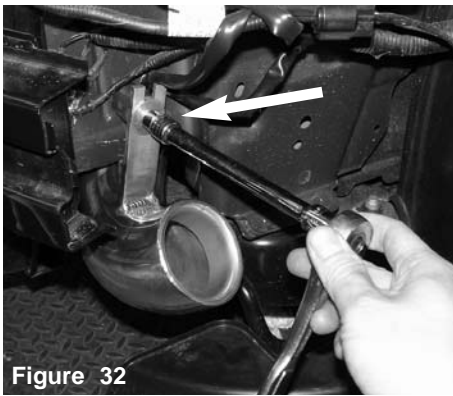


Figure 32
Use a 10mm socket and ratchet and tighten the M6 nut to the bracket

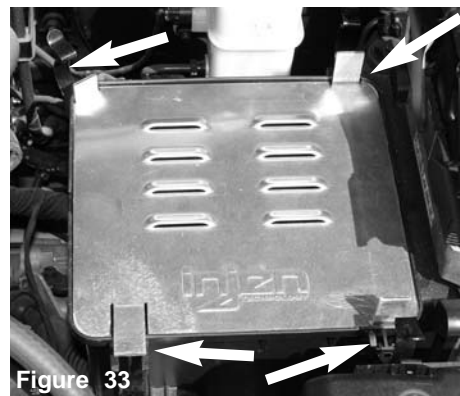


Figure 33
Place the air box cover plate onto the lower portion of the air box. The four arrows indicate mounting points

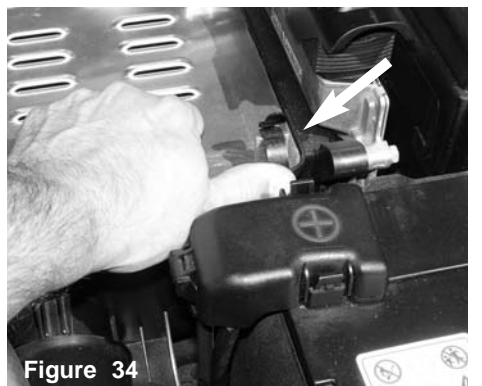


Figure 34
Press the factory air box retaining clip over three air box cover tabs.

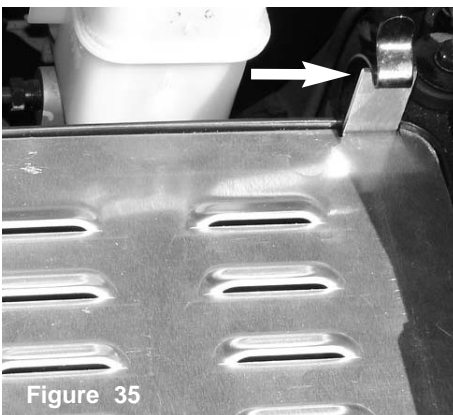


Figure 35
Close up photo showing retaining clip on air box cover tab

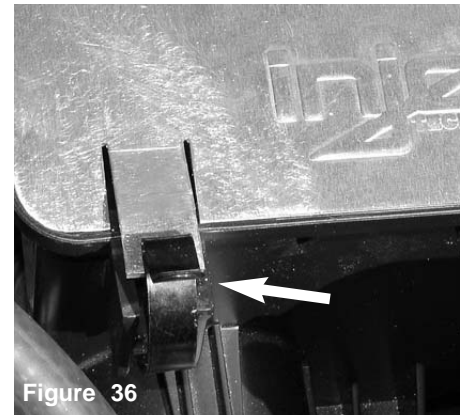


Figure 36
Place the retaining tab over the horizontal tab.

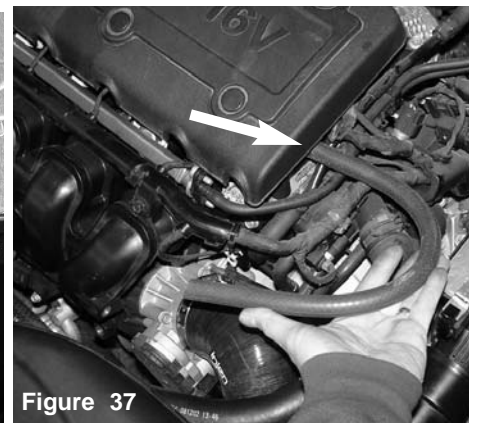


Figure 37
Place the 17"-10mm vacuum hose over the breather port under the engine cover.



Figure 38

Now place the other end of the 10mm vacuum hose over the welded nipple on the intake pipe.

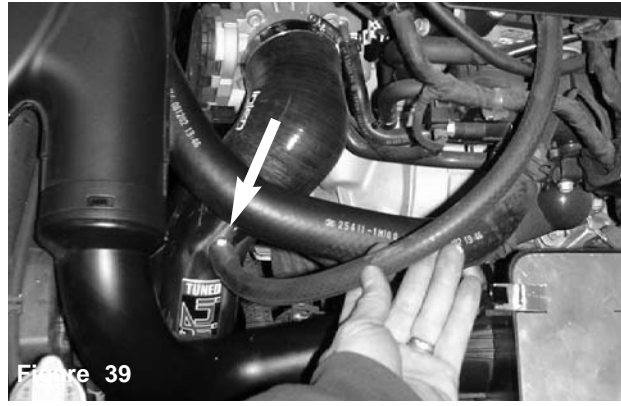


Figure 39

Close up of the nipple attached to the nipple



Figure 40

Vacuum line installed on pipe

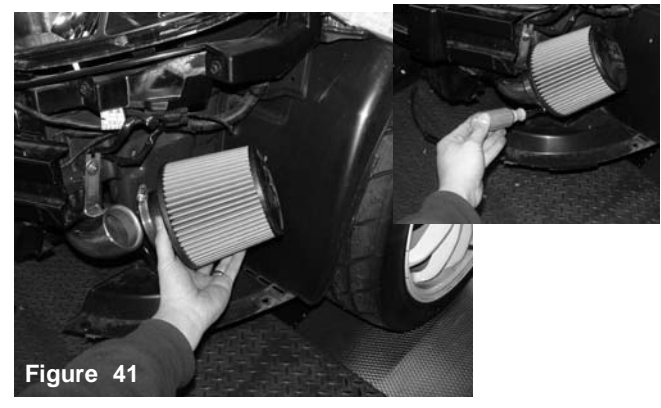


Figure 41

Place the filter on the end of the pipe and then tighten clamp on filter



Figure 42

Congratulations! You have just completed the installation of one of the best air intake systems made. Once the intake and heat shield has been properly adjusted, continue to tighten all nuts, bolts and clamps.



Figure 43

Periodically, check the fitment of both intake systems. Normal driving conditions may loosen nuts, bolts and clamps causing intakes to shift resulting in damage to automotive parts.

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.