



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

Part number SP1330

2011-14 Hyundai Sonata 2.0L Turbo
2011-15 Kia Optima 2.0L Turbo

- 1- intake pipe equipped with M.R. Tech
- 1- 3.50" Filter (#1021)
- 1- 2.50"-3.00" step hose (#3110)
- 1- #48 clamp (#4004)
- 1- #40 clamp (#4003)
- 1- air diverter bracket (#11078)
- 1- fender washer (#6010)
- 1-M6x16 bolt (#6005)
- 1-M8x40 bolt (#6068)
- 1-7 1/2" long vinyl trim (#6023)
- 1- 4 page instruction

Note: All parts and accessories now sold on-line at :
www.injenonline.com

PRODUCT DISCLAIMER AND LIABILITY WAIVER:
THIS PRODUCT IS DESIGNED FOR OFF-ROAD or COMPETITION USE ONLY.

Due to the removal of the factory air box assembly, which contains a Non-removable Hydro-Carbon Element. Any aftermarket intake system that removes the factory air box assembly are to be used for off-road use only. Please keep all OEM intake system components for future use.

Congratulations! You have just purchased the best engineered, dyno-proven cold 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 244Pioneer 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: 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!"



Figure 1



Figure 3
Stock box shown in this picture

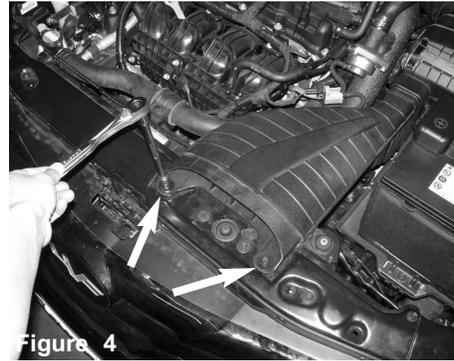


Figure 4
Use a 10mm socket/ratchet and remove the two M6 bolts attached to the factory air box inlet duct.

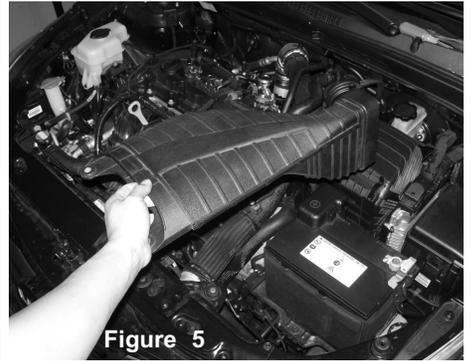


Figure 5
Remove the air box inlet duct from the engine bay. This air duct will be re-used in this installation to draw in cool air to the Injen intake system.



Figure 6
Use a 10mm socket/ratchet and remove the two M6 bolts in front of the air box assembly

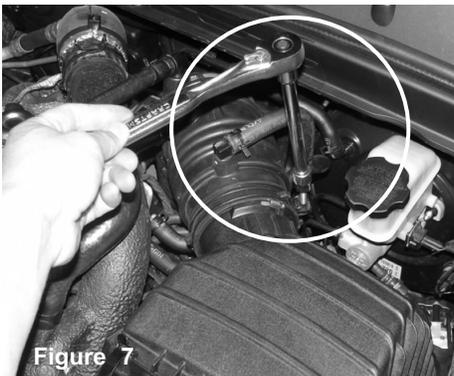


Figure 7
Loosen the clamp on the intake air duct connected to the air box assembly. Detach the intake air duct from the air box assembly



Figure 8
You may now pull the entire air box assembly out of the engine bay by lifting up and out.

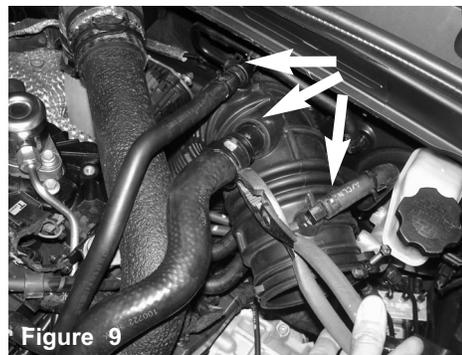


Figure 9
Use a plier and loosen and pull back on the three pressure clamps. The crank case breather line, blow off valve return line and brake booster line will be detached from the intake air duct.



Figure 10
From the bottom side of the intake air duct, loosen the clamp with a 10mm socket/ratchet attached to the turbo inlet.

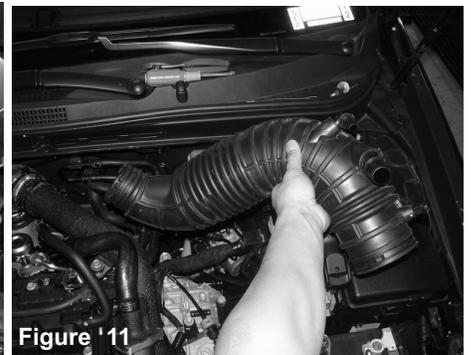


Figure 11
Detach the intake air duct from the turbocharger and you may now remove the intake air duct from the engine bay.

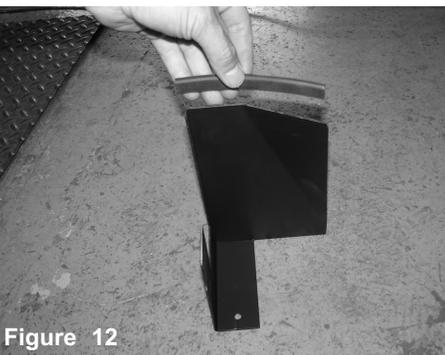


Figure 12
Place the supplied vinyl trim onto the top of the Injen Air Diverter



Figure 13
Behind the battery, Align the hole on the Injen air diverter with the pre-threaded hole where the left bolt that once attached the factory air box assembly too.

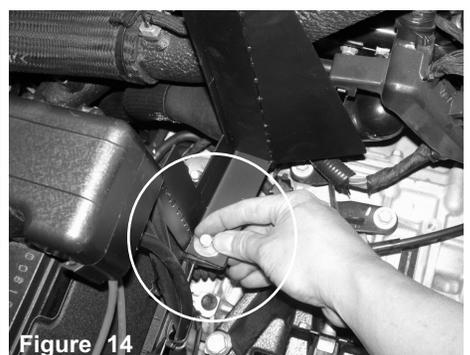


Figure 14
Place a M6x16 bolt and a fender washer onto the air diverter and attach it to the threaded hole.

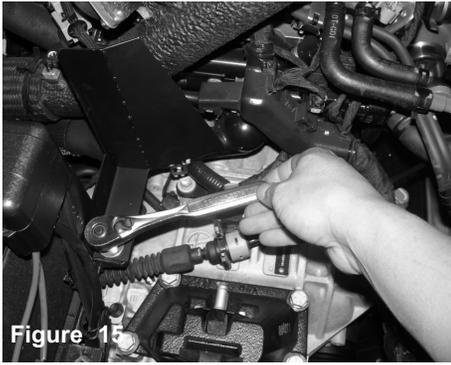


Figure 15
Use a 10mm socket/ratchet and tighten the bolt

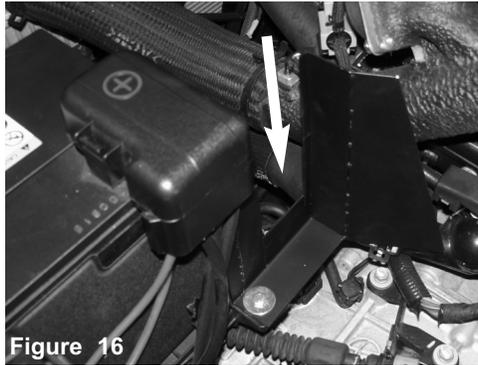


Figure 16
Photo showing air diverter attached behind battery
Arrow indicate where the slot where the factory air box inlet duct will be re-installed from figure 5

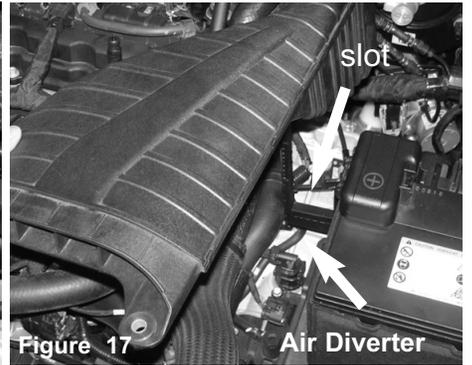


Figure 17
slot
Air Diverter
Re-install the inlet duct and make sure the slot of inlet duct lines up with the slot on the air divert. Arrow indicates air diverter and slot indicated in figure 16

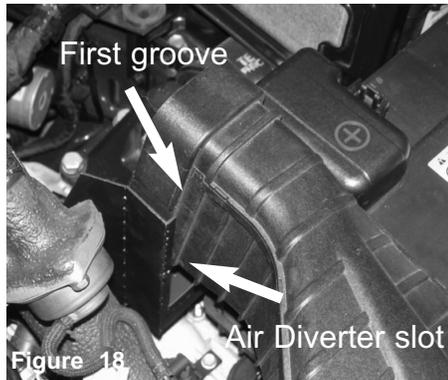


Figure 18
First groove
Air Diverter slot
Top view of the inlet duct placed into the slot of the air diverter. Make sure you line up the first groove with the slot on the air diverter.



Figure 19
Install the 2.50"-3.00" step hose with 1-#48 and 1-#40 clamp onto the inlet of the turbocharger compressor inlet. The 2.50" end goes onto the turbocharger inlet

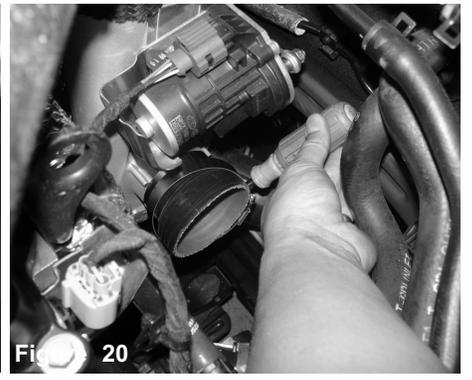


Figure 20
Use a 8mm nut driver and only tighten the #40 clamp on the 2.50" side of the step hose attaching the step hose to the turbo inlet

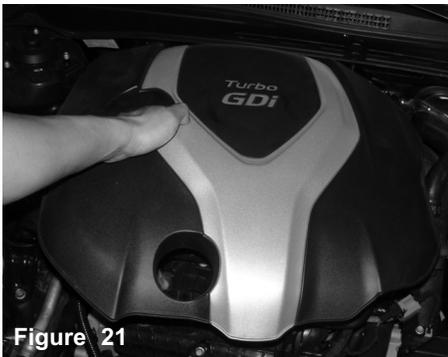


Figure 21
Remove the engine cover.

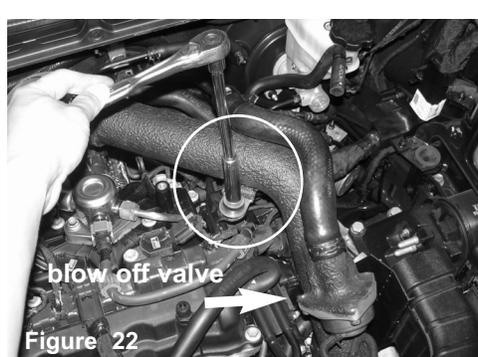


Figure 22
blow off valve
Loosen the M8 bolt with a 12mm socket/ratchet on the upper intercooler piping next to the factory blow off valve.



Figure 23
Remove the factory M8 bolt. This bolt will not be reused in this intake installation. A longer supplied M8x40 bolt will be used.



Figure 24
Position the Injen intake pipe into the engine bay. Push the 3.00" end of the pipe into the 3.00" end of the step hose already on the turbocharger inlet from figure 20

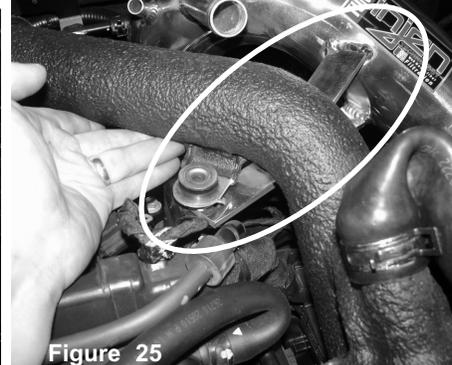


Figure 25
Lift the factory upper intercooler pipe up and slide the Injen intake pipe bracket underneath the upper intercooler pipe bracket

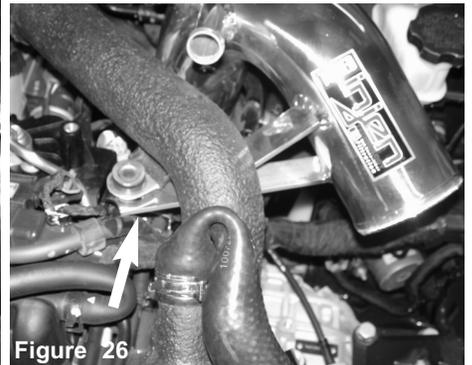


Figure 26
Injen intake bracket shown under factory upper intercooler pipe bracket

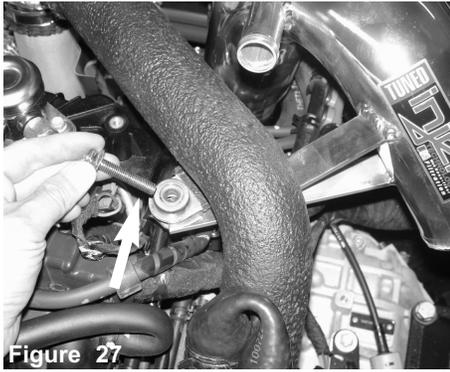


Figure 27
Place the supplied longer M8x40 bolt into the hole of the factory upper intercooler pipe bracket



Figure 28
Use a 12mm socket/ratchet to secure the Injen intake bracket to the factory upper intercooler pipe bracket



Figure 29
Once you have positioned the Injen intake pipe for best fitment, continue to tighten the #48 clamp on the 3.00" side of the step hose on the turbocharger securing the pipe to the step hose.



Figure 30
Figure A: Place the filter onto the 3.50" end of the Injen intake pipe. **Figure B:** Use a 8mm nut driver to tighten the clamp to secure the filter onto the pipe.

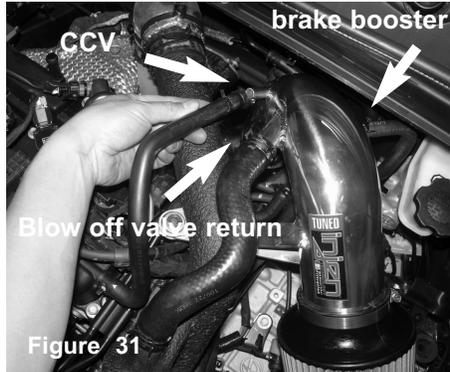


Figure 31
Re-attach all three vacuum lines removed from figure 9. The Blow off valve return, crank case breather and brake booster line will be re-attached.



Figure 32
Re-install the engine cover



Figure 33

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 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.