



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 SP1116
2015-2018 BMW M3 (F80)
2015-2020 BMW M4 (F82/F83)
2019-2021 BMW M2 Competition (F87)
3.0L Twin Turbo L6 S55

1- 2 pc. Short Ram Intake system with **MR Technology**

- 1- Heatshield driver (#11125)**
- 1- Heatshield Pass (#11124)**
- 2- Injen Badge (#11097)**
- 2- 3" Injen dry filter (#1081)
- 1- 3" straight hose (#3187)
- 2- Power Bands #048 (#4004)
- 2- M6 stand off studs (#15023)
- 2- M6 vibramount (#6020)
- 1- Nylon Spacer (#8042)
- 1- Grommet (#8026)
- 4- M4 button screws (#6072)
- 7- M6 flange nut (#6002)
- 8- Fender washer (#6010)
- 2- M6x16 hex screw (#6005)
- 1- M6x25 hex screw (#6006)
- 2- Rubber trim @13.5"L (#6058)
- 2- Vinyl trim @13.5"L (#6023)
- 1- bulb edge trim @18"L (#6094)
- 1- bulb edgetrim@15.5"L(#6094)

1- 4 page instruction

Note: All parts and accessories now sold on-line at :

"injenonline.com"

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 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"

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 2



Figure 3
Stock box shown in this picture

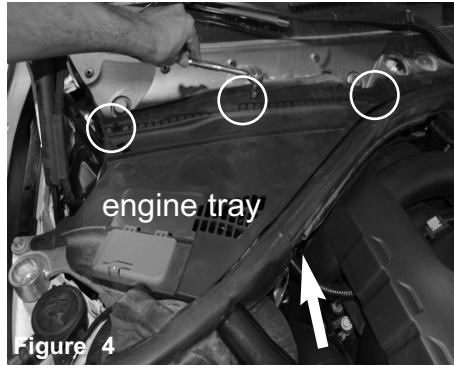


Figure 4
Loosen the 3 plastic screw fittings holding in the engine tray connected at rain gutter.

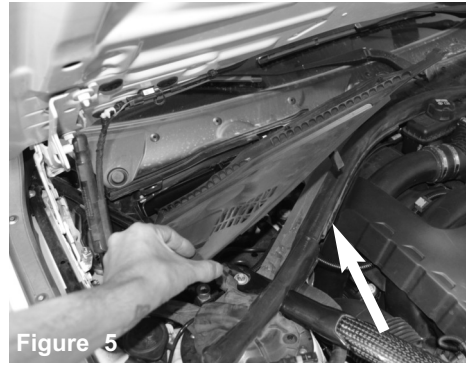


Figure 5
Loosen the engine tray and pull back weather trim seal.



Figure 6
Lift up and turn the engine tray out of the way. This will allow for removal of the factory strut bar. Now repeat and do on other side of vehicle.

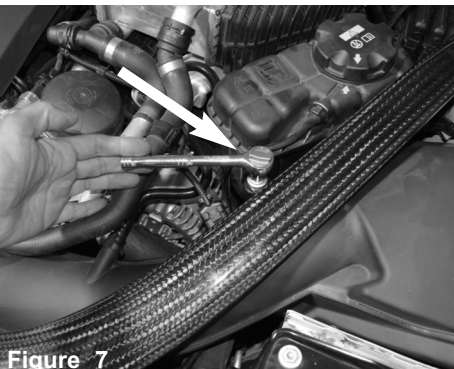


Figure 7
Loosen the 10mm bolt holding the strut bar on coolant reservoir.

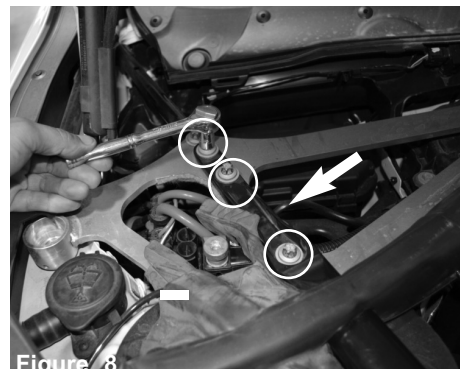


Figure 8
Loosen the 3 bolts on the end of the strut bar and remove. Continue on other side.



Figure 9
Now loosen the 2 bolts holding in the front of the strut bar on the radiator support.

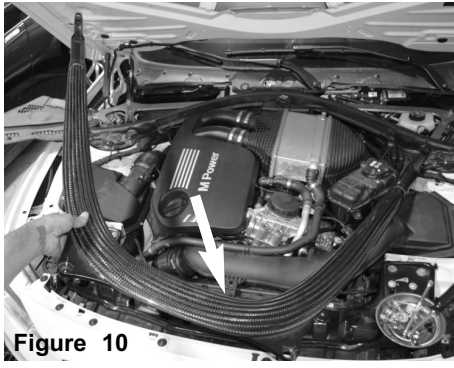


Figure 10
Now lift up and remove the factory strut bar. This will now have access for the intake systems.



Figure 11
Loosen Clamp
Disconnect passenger side MAF sensor harness. Loosen clamp on air box.



Figure 12
Pull back the intake hose, now lift up and remove the passenger side air box out of vehicle.



Figure 13
Loosen the clamp on the turbo housing using 7mm nut driver. Now lift up and remove passenger side intake tube from vehicle.

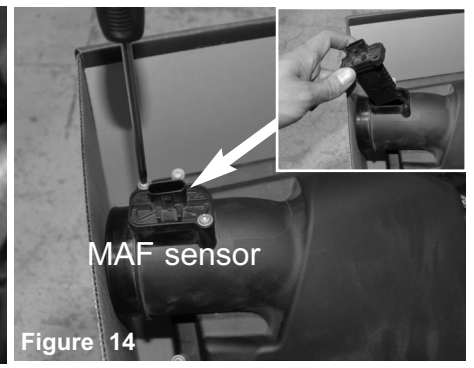


Figure 14
MAF sensor
With T25 torx bit, loosen the 2 screws holding in MAF sensor remove.

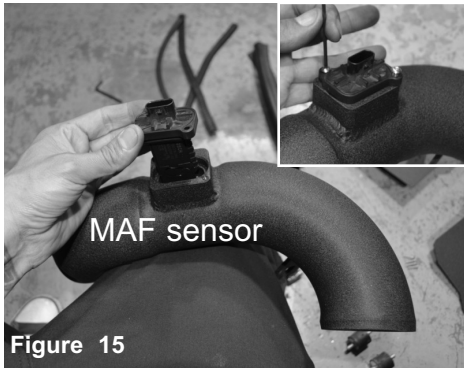


Figure 15

Install the MAF sensor into the new passenger side intake tube. Secure and tighten using 2.5mm allen key.

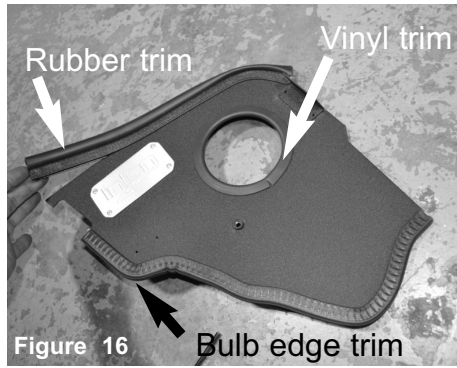


Figure 16

Install the rubber trim to top of the passenger side heat shield. Install the vinyl trim to the hole cut out. Now install the longer bulb edge trim to the bottom of the heat shield.



Figure 17

With provided M6 vibramount, install to the threaded insert on the back of the passenger side heat shield. Secure and tighten.



Figure 18

Place clamps to 3" hose like above image for easy access when securing the clamps. Now install the hose assembly to the turbo housing. Tighten the clamp on the housing only using 8mm nut driver.

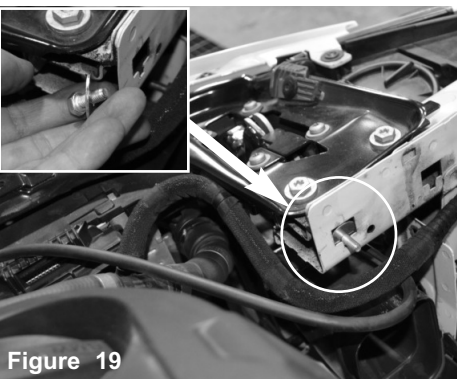


Figure 19

Locate front radiator support hole cut out on passenger side. This will be used to secure the front of heatshield. With provided M6x16 hex screw and fender washer, slide into the cutout.



Figure 20

With provided M6 stand off stud, locate the factory OEM grommet location on passenger side, install and secure the stand off stud to the grommet. Make sure the stand off stud is seated.



Figure 21

Install the passenger side heat shield and position the bracket to the stand off stud and front bracket to the screw from step 19.

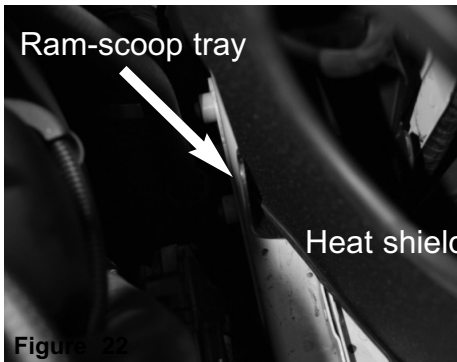


Figure 22

NOTE: Make sure the heatshield sits inside of the Ram-scoop tray. It will not install correctly if the heat shield sits outside of Ram-scoop tray.



Figure 23

Secure the stand off stud using provided M6 nut and fender washer.

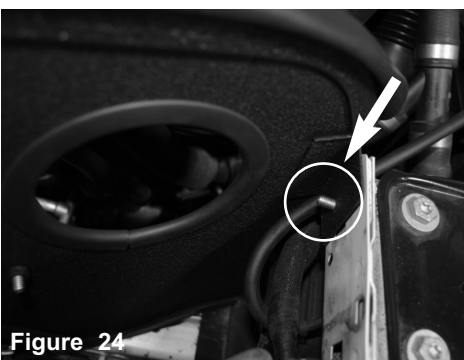


Figure 24

Secure the front of the bracket on passenger side heat shield using m6 nut.



Figure 25

Position the passenger heat shield to best fit. Tighten both nuts using 10mm socket and ratchet and 10mm wrench.

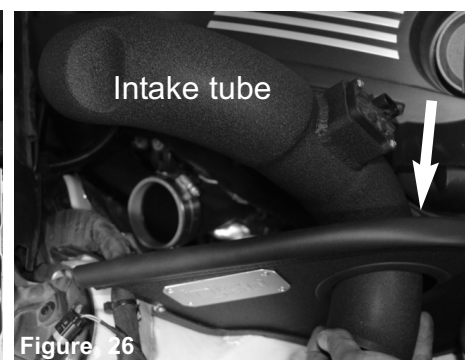


Figure 26

Install the passenger side tube. Position the tube through hole in heat shield and bracket to the vibramount. Install the tube to hose.

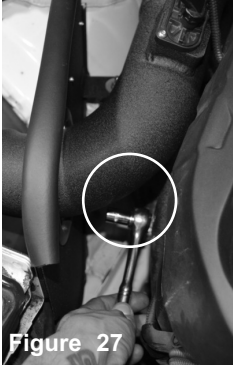


Figure 27

Secure the bracket on tube to the vibramount from step 17 using provided M6 nut and fender washer. Tighten the clamp on turbo hose.

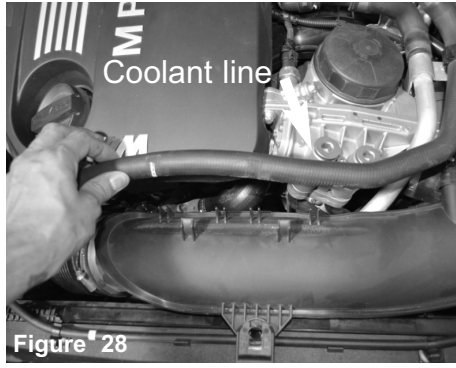


Figure 28

Now remove the driver side air box. Pull back the coolant line from the intake tube.

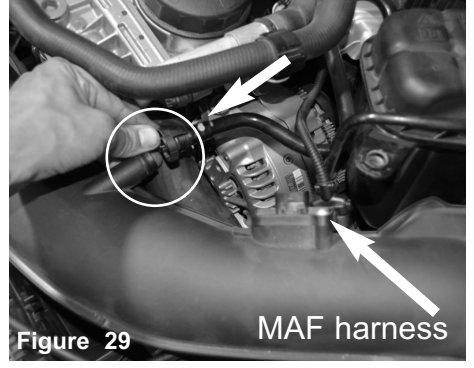


Figure 29

Disconnect the MAF sensor harness. Disconnect the vacuum line from the intake tube fitting.

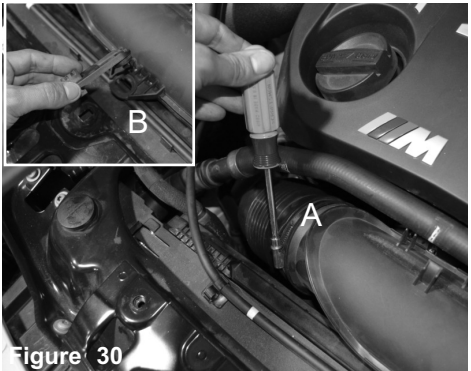


Figure 30

A) Loosen the clamp on intake tube using 7mm nut driver. B) Remove the plastic bracket that connects the intake tube to radiator support.

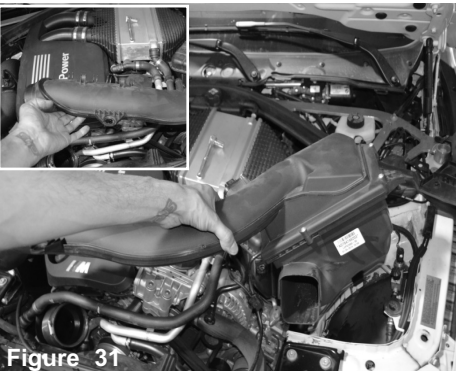


Figure 31

Now lift up and remove the whole driver side intake system out of the vehicle.

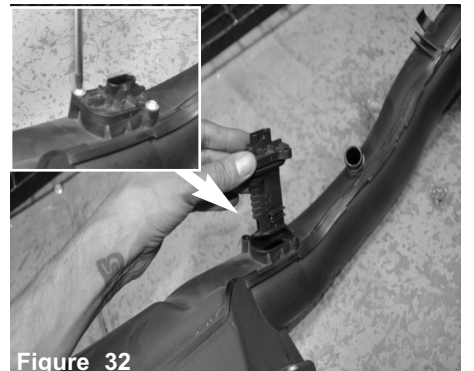


Figure 32

With t25 torx bit, loosen the 2 screws holding in the MAF sensor. Carefully remove the MAF sensor.

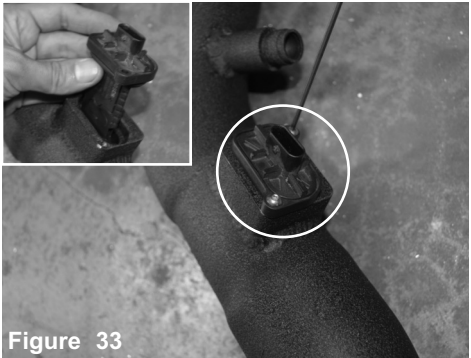


Figure 33

Install the MAF sensor into the new intake tube. Secure and tighten using provided m4 screws.

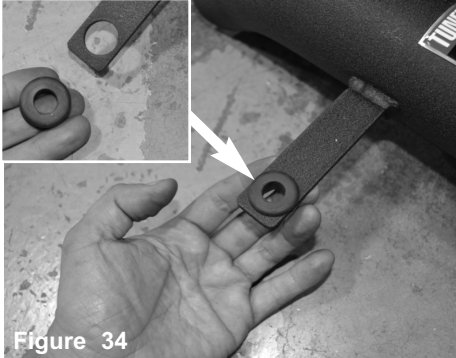


Figure 34

Install the provided grommet to the hole on bracket.

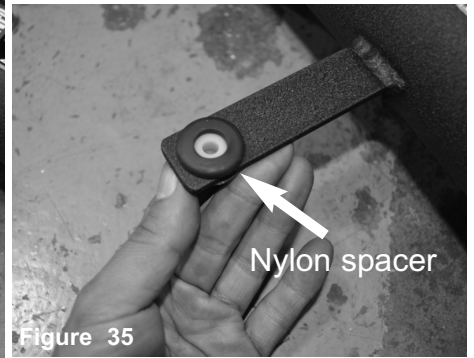


Figure 35

Now install the provided nylon spacer inside the grommet.

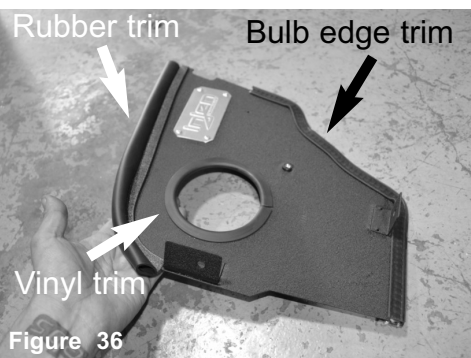


Figure 36

Install the rubber trim to top of the driver side heat shield. Install the vinyl trim to the hole cut out. Now install the shorter bulb edge trim to the bottom of the heat shield.



Figure 37

Now install the provided M6 vibramount to the threaded insert on heatshield.

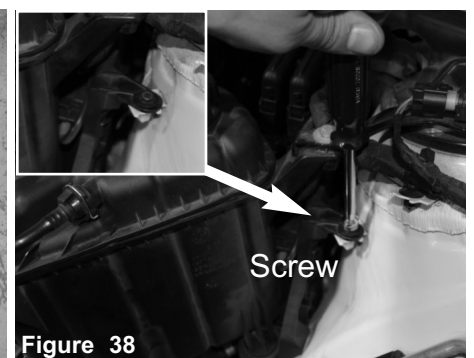


Figure 38

Locate the screw holding in the coolant reservoir. Loosen the screw and save for later install.

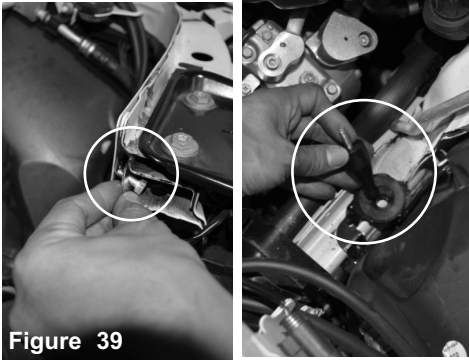


Figure 39

Locate front radiator support hole cut out on driver side. This will be used to secure the front of heatshield. With provided M6x16 hex screw and fender washer, slide into the cutout. Install and secure the stand off stud to the grommet.

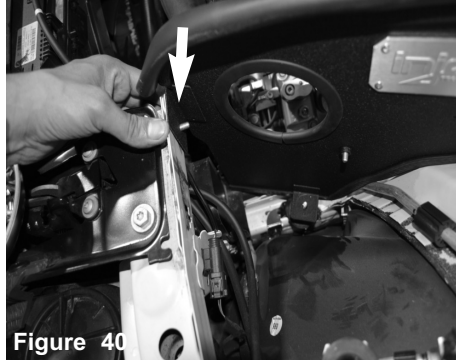


Figure 40

Install the driver side heat shield and position the bracket to the stand off stud and front bracket to the screw from previous step.



Figure 41

NOTE: Make sure the heatshield sits inside of the Ram-scoop tray. It will not install correctly if the heat shield sits outside of Ram-scoop tray.

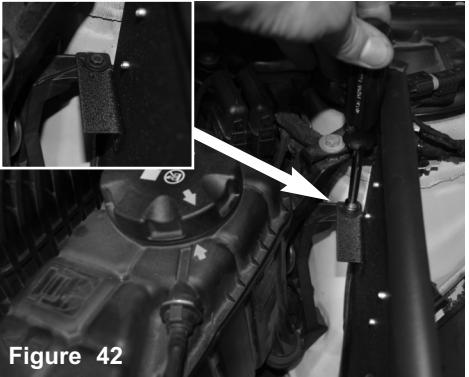


Figure 42

Now secure the back of the heat shield to the coolant reservoir using original screw from step 38. Secure and tighten the screw.



Figure 43

Secure the stand off stud using provided m6 nut and fender washer.

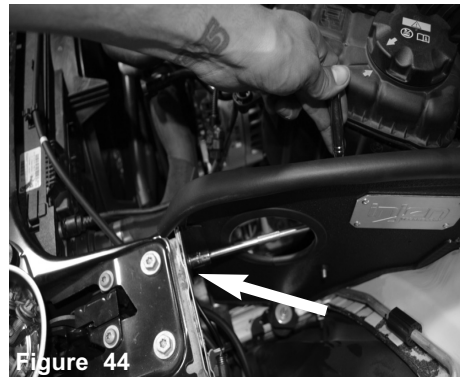


Figure 44

Tighten bolt on radiator support using 10mm socket and ratchet and 10mm wrench.



Figure 45

Install the driver side intake tube and position.

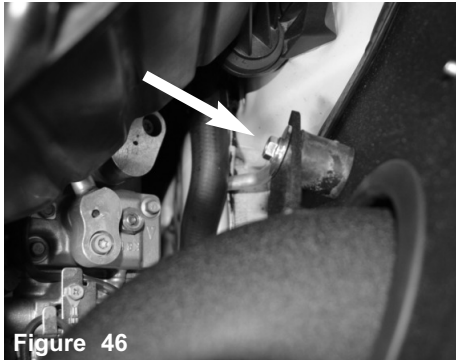


Figure 46

Secure the bracket to the vibramount using provided m6 nut and fender washer.

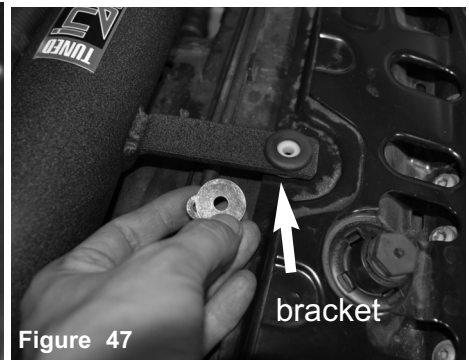


Figure 47

With provided m6 nut and fender washer, position under the frame.

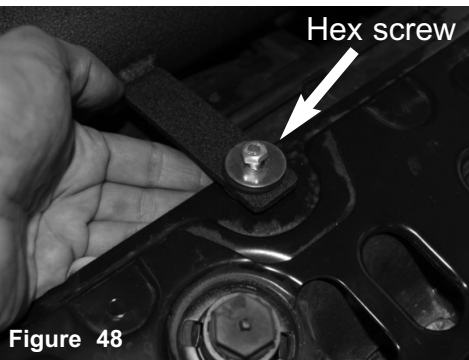


Figure 48

While holding nut in position, install the hex screw from top and secure to nut. **Note: Needs to be installed like this for clearance.**

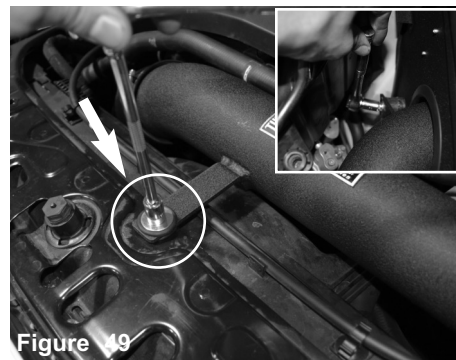


Figure 49

Now secure and tighten the screw and vibramount using 10mm socket and wrench. **Note: Install the strut bar to check clearance, rotate and adjust for best fit.**

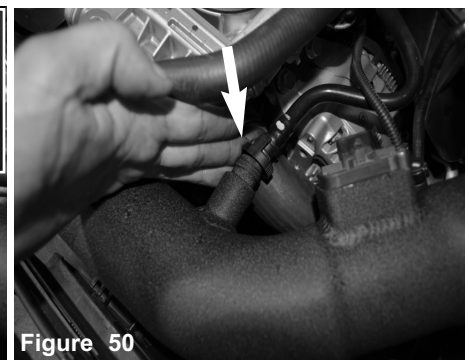


Figure 50

Connect the vacuum line to fitting on harness. Make sure you hear the click.



Figure 51

Now connect both driver side and passenger side MAF sensor harness.

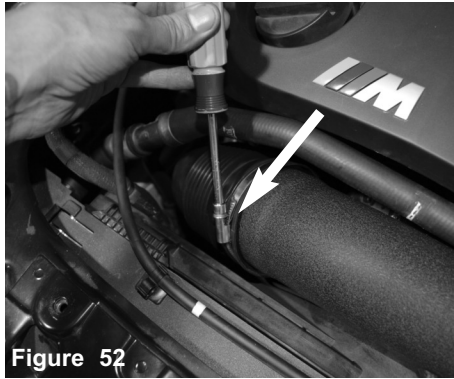


Figure 52

Tighten the clamp on intake tube and secure.

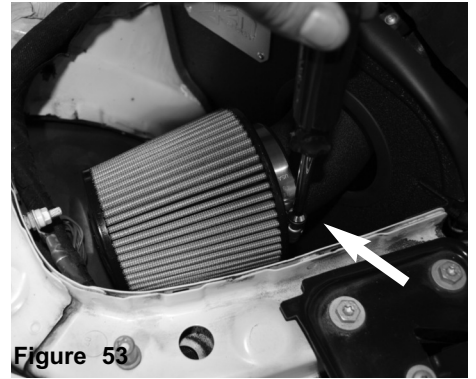


Figure 53

Install the air filter to the passenger side, make sure filter goes on intake tube 3/4" - 1" and stop.



Figure 54

Install the air filter to the driver side, make sure filter goes on intake tube 3/4" - 1" and stop.



Figure 55

Check all clearance and adjust if needed.



Figure 56

Re-install the strut bar in reverse steps 10-4.



Figure 57

Position for the best possible fit and check for clearance. Re-adjust if necessary.



Figure 58

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. **Note: Check clearance and adjust if needed! Failure to check the alignment and adjust the intake can cause damage that will void the warranty. Injen Technology is not responsible for any damages caused by/from improper installation.**

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.