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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. Published and patent pending
- 3- Calibration Method and Device for Air Intake Tracts having Air Fusion Published and patent pending
- 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 patented MR step down process, Air Fusion and built-in air intake horns.

- Part number SP1989**
2009-11 Nissan 370Z 3.7L V6
Dual Cold air intakes equipped with MR Technology, Air Fusion
- 1- Driver side cold air intake
 - 1- Passenger side cold air intake
 - 2- 2.75" Injen/AMSOIL (#1010BB) Ea nano-fiber performance dry filters (No Oil Required)
 - 2- 2.75" x 3.00" step hose (#3120)
 - 2- Intake stand-offs (#15023)
 - 1- 11"- 25mm vacuum hose (#3165)
 - 2- 2" - 15mm vacuum hose (#3079)
 - 2- Power Bands .312 (#4003)
 - 2- Power Band .362 (#4004)
 - 2- m6 flange nuts (#6002)
 - 2- Fender washers (#6010)
 - 4- m6 x 12mm hex bolts (#6056)
 - 1- Reservoir bottle w/barb fitting (#6086)
 - 1- upper reservoir bracket (#20094)
 - 1- Side reservoir bracket (#20095)
 - 1- Zip Tie (#8014)
 - 1- 8 page instruction

Note: The C.A.R.B. exempt sticker must be attached under the hood in a manner that is easily by an emissions inspector

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.

Please check the contents of this box immediately.

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



Figure 1

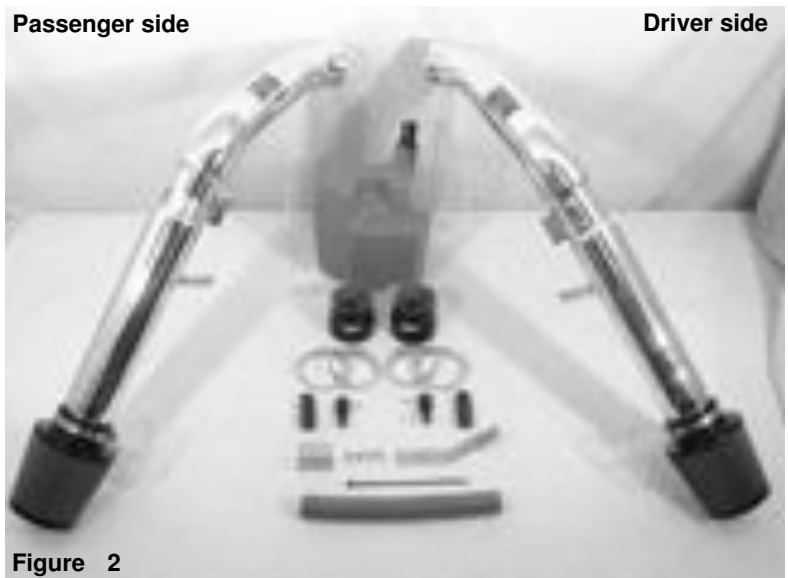


Figure 2



Figure 3
Stock air intake cleaner and air ducts shown in this picture. Before getting started with the installation, disconnect the negative battery terminal.

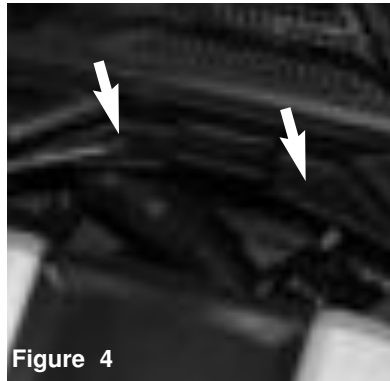


Figure 4
Pop plastic tabs with screwdriver and remove clips from the stabilizer bar upper cover.

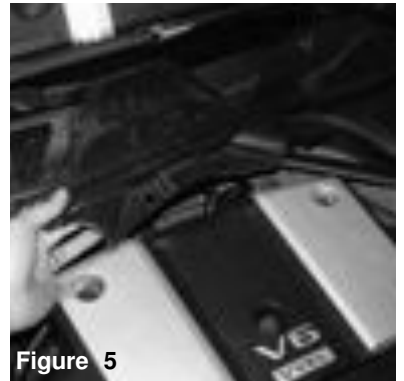


Figure 5
The stabilizer bar cover is now removed.

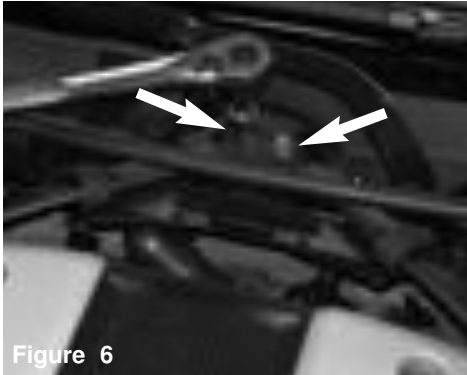


Figure 6
The stabilizer bar upper 14mm bolts are loosened and removed.



Figure 7
Passenger side strut tower- Loosen and remove two 14mm bolts and one 14mm flange nut from the stabilizer bar.

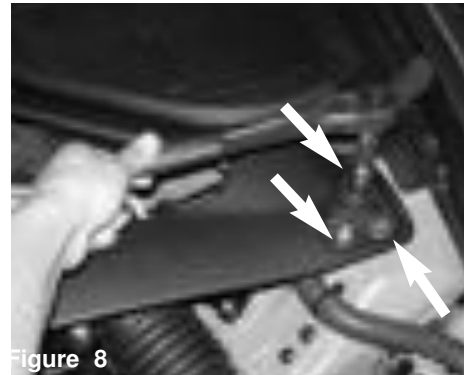


Figure 8
Driver side strut tower- Loosen and remove the 14mm bolts and one 14mm flange nut.



Figure 9
Once you have removed all nuts and bolts, continue to pull the stabilizer bar out of the engine compartment.



Figure 10
Remove the 10mm bolt located on the passenger and driver side upper wheel well.



Figure 11
The 7 plastic tabs to be removed from the upper bumper lip.



Figure 12
Pop all 7 plastic tabs and remove clips located on the bumper lip.

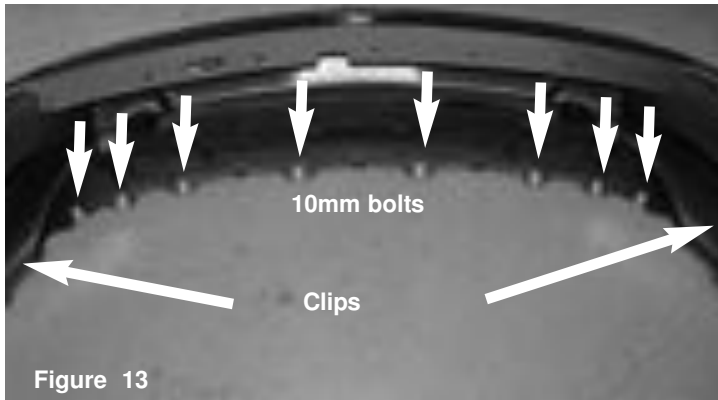


Figure 13

Remove all 8- 10mm bolts located under the bumper and two side clips



Figure 14

In order to remove the spout, the plastic tab is popped and removed



Figure 15

The plastic tab is now removed.

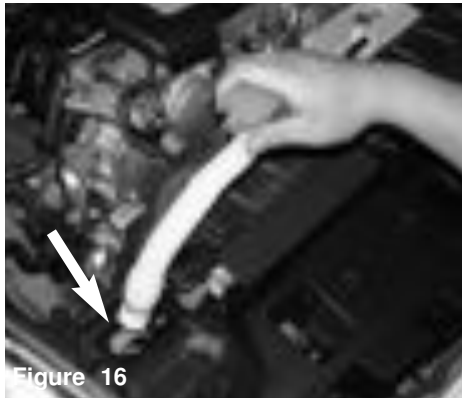


Figure 16

The upper spout is gently pulled away from the lower reservoir bottle.

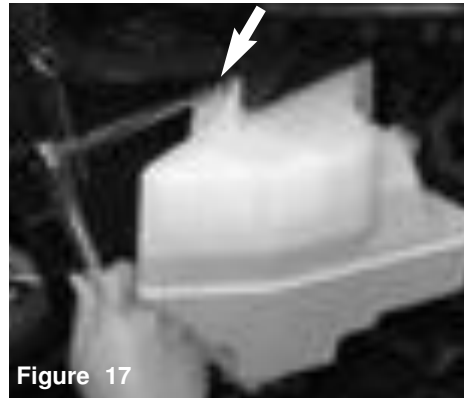


Figure 17

The first 10mm bolt is removed from the reservoir bottle frame.

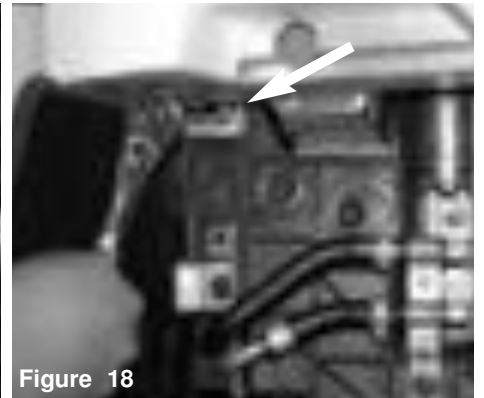


Figure 18

The second 10mm bolt is removed from the front of the reservoir bottle.

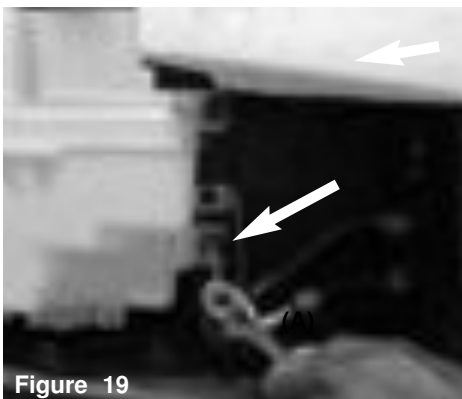


Figure 19

The third 10mm bolt is removed from the front of the lower reservoir bottle.

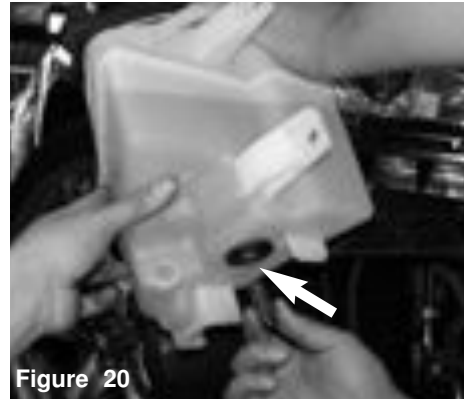


Figure 20

The electrical harness clip is removed from the reservoir sensor as shown above.



Figure 21

The motor vacuum hose is removed from the reservoir motor



Figure 22

The reservoir bottle fluid is poured into a container to be used later in the instruction.



Figure 23

The driver side horn bolt is loosened in order to reposition the horn.

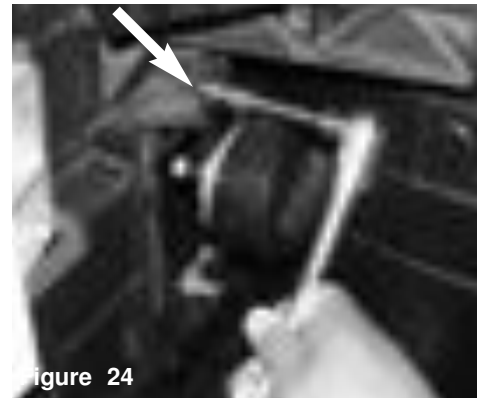


Figure 24

The 10mm bolt holding the horn in place is loosened.



Figure 25

Once you have loosened the 10mm bolt, continue to turn the horn downward, re-tighten the 10mm bolt.

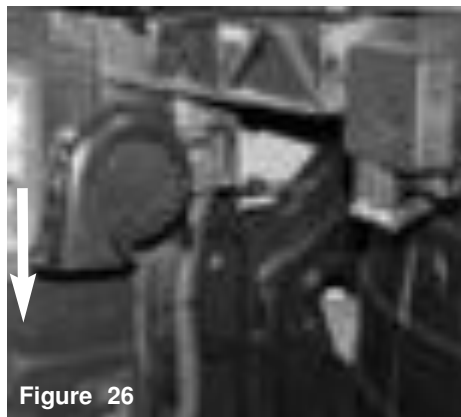
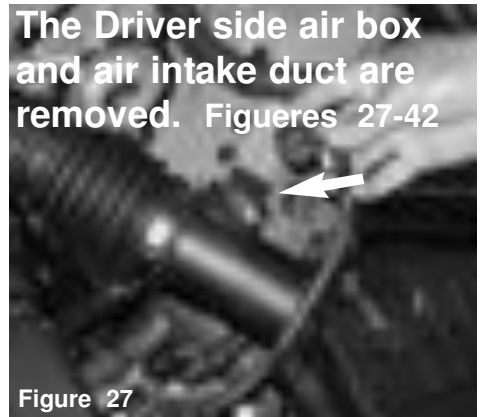


Figure 26

The horn is relocated so that the opening is pointing downward.



The Driver side air box and air intake duct are removed. Figures 27-42

Figure 27

The electrical harness is disconnected from the mass air flow sensor.

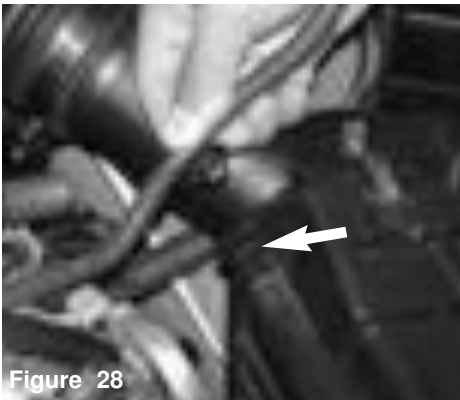


Figure 28

The harness tab is pulled off and removed from the corner air box.

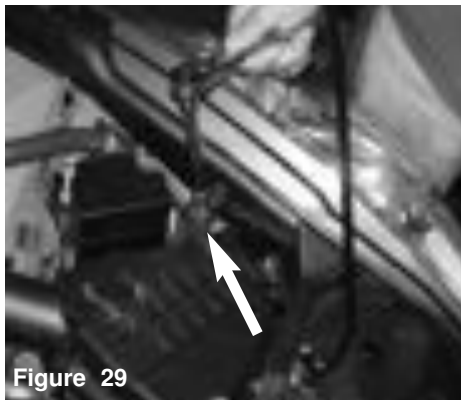


Figure 29

A 10mm socket is used to loosen and remove the 10mm bolt holding the air box cleaner in place.



Figure 30

The two screws holding the mass air flow sensor to the sensor housing are removed.

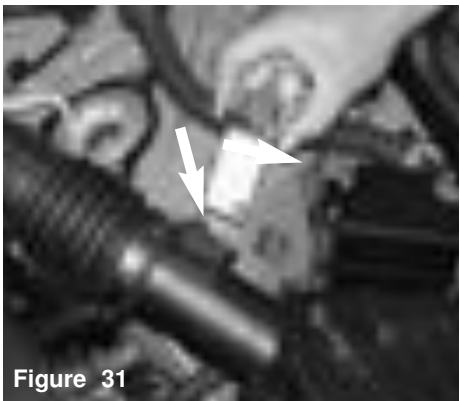


Figure 31

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

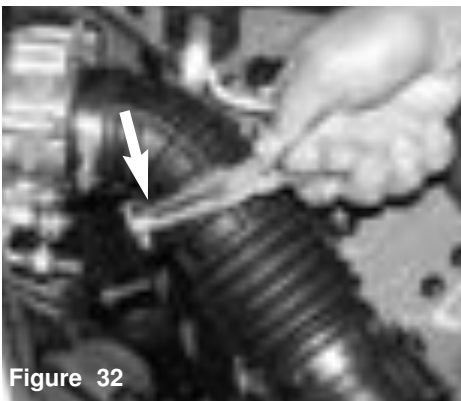


Figure 32

Compress the tension clamp on the CCV box and slip back. This will allow you to remove the CCV box.



Figure 33

Loosen the air intake duct clamp located over the throttle body.



Figure 34

Pull the air duct from the the throttle body and pull the intake port from the CCV box.

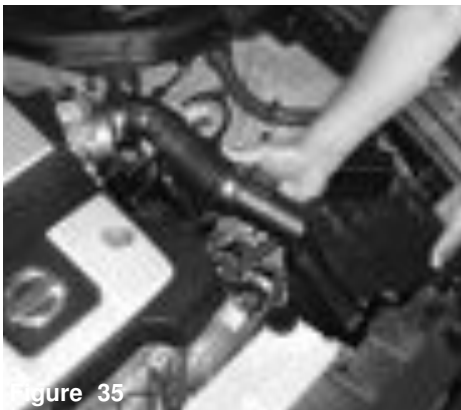


Figure 35

Continue to pull the entire air intake box cleaner and air intake duct from the engine compartment.



Figure 36

Press the silicone step-hose over the throttle body until it sits flush up against the base of the throttle body.



Figure 37

Silicone step-hose on the throttle body and sitting flush against base.

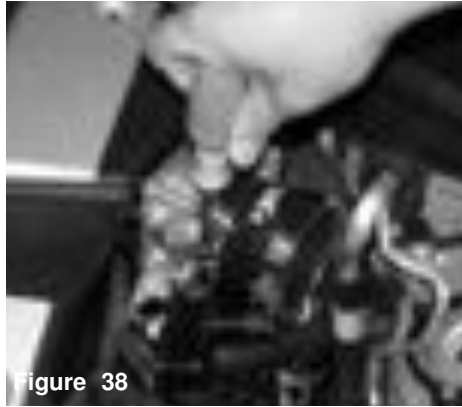


Figure 38

Tighten clamp on throttle body side only.

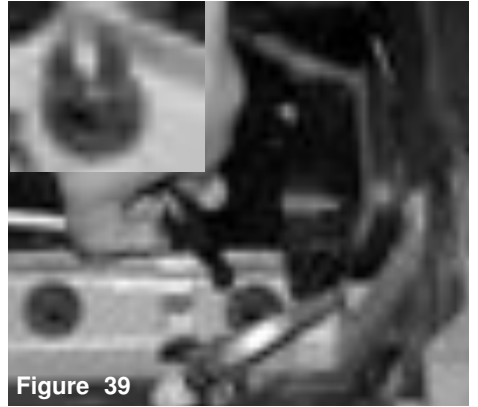


Figure 39

Align the composite stand-off over the front stock air box grommet and make sure it is fully inserted

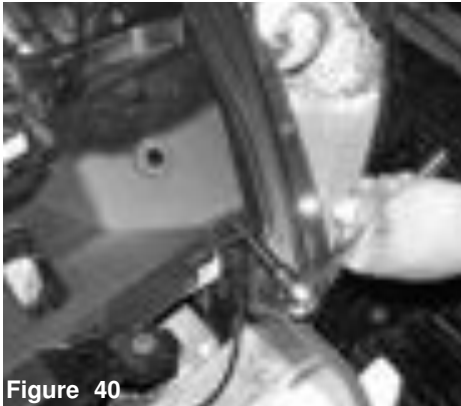


Figure 40

Remove the 10mm bolt securing the factory air box duct from the front side of the radiator support.



Figure 41

From the back side of the radiator support, remove the air duct



Figure 42

This air duct will no longer be used.

Repeat steps 27-42 when removing the stock air intake box and air intake duct from the passenger side.



Figure 43

Carefully insert the mass air flow sensor into the sensor housing of the intake pipe.



Figure 44

Re-use the stock M4 bolts to secure the air mass sensor to the sensor housing



Figure 45

Use a 7mm nut driver to tighten the M4 bolts to the sensor housing.



Figure 46

Place the intake tube down into the the wheel well.

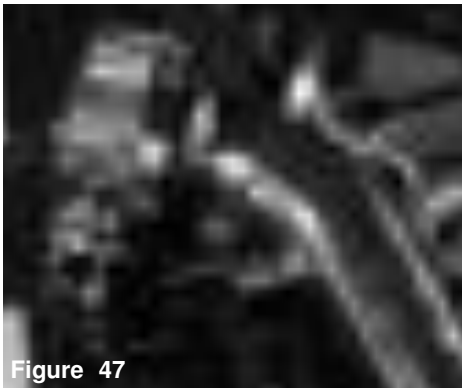


Figure 47

Place the throttle body end of the pipe into the silicone step-hose.



Figure 48

Align the intake bracket over the stand-off.



Figure 49

Place a fender washer and one M6 flanged nut onto the stud of the stand-off

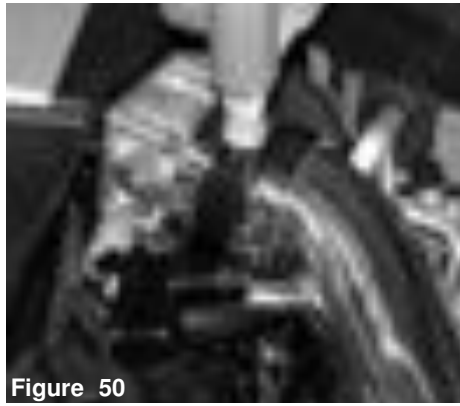


Figure 50

Once the pipe is aligned and there is clearance along the pipe, you may now tighten the clamp securing the pipe



Figure 51

using a 10mm socket and 3/8 ratchet, tighten the 10mm bolt securing the pipe to the stand-off.



Figure 52

Place one 2"-15mm vacuum hose over the nipple located on the pipe



Figure 53

Insert the CCV breather box into the 15mm vacuum hose.



Figure 54

CCV breather box in correct position and bottomed out.



Figure 55

Align the air mass sensor harness over the sensor and press the harness over the sensor until it snaps in place

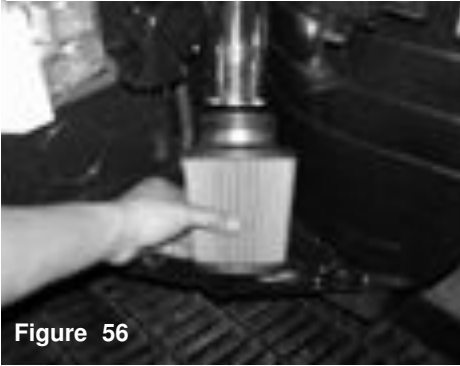


Figure 56

Align the filter and press it over the end of the tube. Make sure the filter bottoms out all the way to the built in velocity stack stop.



Figure 57

Use a 8mm nut driver to secure the filter to the end of the intake pipe.

Repeat steps 43-57 when installing the cold air intake and filter on the passenger side.



Figure 58

Using a similar cutting device, cut the reservoir spout at the beginning of the second bend.

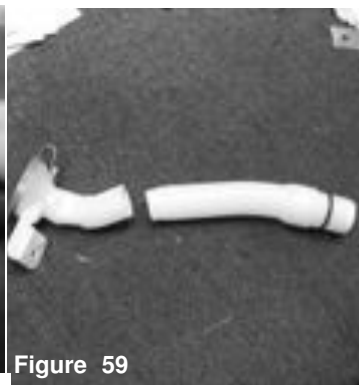


Figure 59

Spout is now cut at the second bend. You will only be using the filler end of the spout.



Figure 60

Close up of spout after being cut

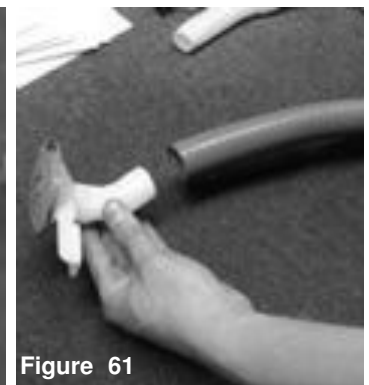


Figure 61

Place the filler end of the spout into the 25mm hose.



Figure 62

Insert the 25mm hose into the original location of the spout.



Figure 63

Make sure the end of the 25mm hose drops through the bottom near the filter on the passenger side.



Figure 64

Filler spout in it's original location and use original plastic clipt to secure it.

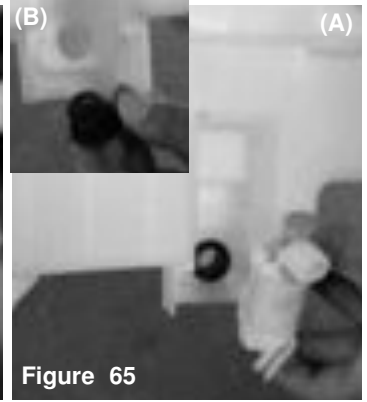


Figure 65

Remove pump and grommet from stock windshield reservoir as shown in figure A and B

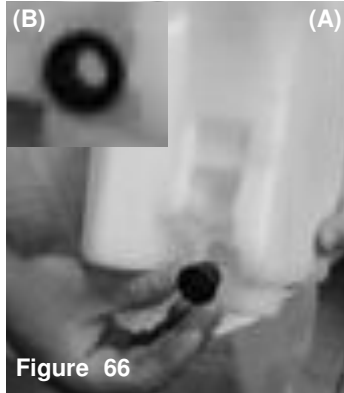


Figure 66

Now place stock grommet into the Injen reservoir bottle. Figure (B) shows grommet secured into reservoir



Figure 67

Place stock pump into the grommet that was place into the Injen reservoir bottle. A little WD40 on the grommet might help with inserting the pump.



Figure 68

Pump secured to the Injen reservoir bottle.



Figure 69

Place the upper reservoir bottle bracket over the two nut inserts on top of the Injen reservoir bottle and secure it with two M6 hex bolts.



Figure 70

Place the lower reservoir bracket over the two nut inserts on the side of the reservoir bottle and insert two M6 hex bolts to hold it in place



Figure 71

Tighten the two M6 hex bolts to secure bracket onto reservoir bottle.



Figure 72

Place water line back into the water pump

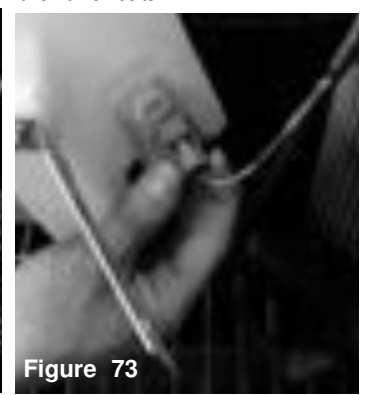


Figure 73

Insert harness back into the pump and make sure it snaps into place.

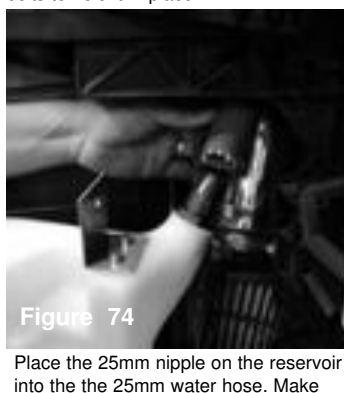


Figure 74

Place the 25mm nipple on the reservoir into the the 25mm water hose. Make sure you bottomout the hose onto the nipple



Figure 75

Using a stock 10mm bolt secure the upper reservoir bracket in it's stock location.



Figure 76

Tighten the 10mm bolt with a 10mm socket and 3/8 ratchet.



Figure 77

use a stock 10mm bolt and secure the side reservoir bracket to the stock location of the upper side bracket only.



Figure 78

use a 10mm socket and 3/8 ratchet to tighten the 10mm bolt to secure the side bracket to the radiator support.



Figure 79

Reservoir bottle in place and secured



Figure 80

Re-install the stabilizer bar.



Figure 81

Stabilizer bar in it's original location



Figure 82

Continue to tighten all 14mm bolts securing the stabilizer bar. Remember to re-install the plastic cover for the stabilizer bar removed in figure (4)



Figure 83

Your installation is now complete and now you can re-install the front bumper



Figure 84

.Congratulations! You have just completed the installation of one of the best air intake systems on the market. Prior to driving, start the engine and listen for odd sounds such as rattling, rubbing or vacuum leaks. If everything checks out fine, let it idle for 10 minutes in order for the ECU adjust to the added volume of air.



Figure 85

.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.

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.