



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 SP3016
99.5 -2003 Jetta/Golf with ALH
TDI 1.9L 4cyl. turbo diesel engine
2004-2005.5 Jetta/Golf PD BEW
TDI 1.9L 4cyl. Turbo diesel engine

- 1- 2 - pc. intake pipes
- 1- 2.5" Injen filter (#1012)
- 1- 2.75" straight hose (#3043)
- 1- TT intake hose (#3046)
- 4- 040 Clamps (#4003)
- 2- M4 button head screw (#6072)
- 1- M6 vibra-mount (#6020)
- 1- M6 flange nuts (#6002)
- 1- M6 washers (#6010)
- 1- 1 1/2" X 1/4 alum. coupler
- 1- 6"-6mm vac hose
- 1- 4 page instruction

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

"injenonline.com"

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

CARB E.O. 1999.5-2003 Models Only

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

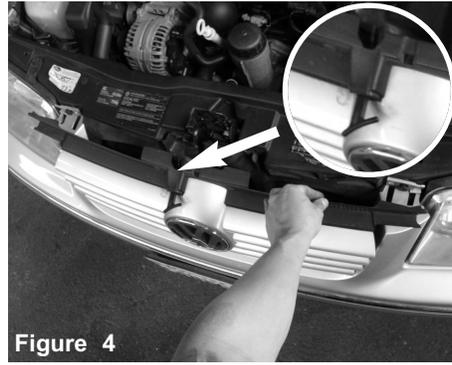


Figure 4
Lets start off by first removing the front bumper. Lift up on the front grill and pull towards you to unlatch the grill from the bumper. This will give you access to the hood latch that will need to be unhooked.

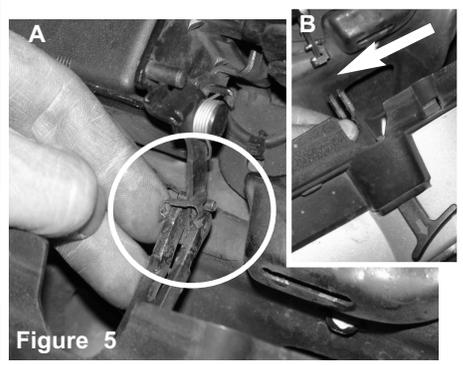


Figure 5
Figure A: On the back side of the grill is the unlocking clip for the hoodlatch. This clip need to be lifted in order to remove the latch from the hindge. **Figure B:** Hood latch is disconnected

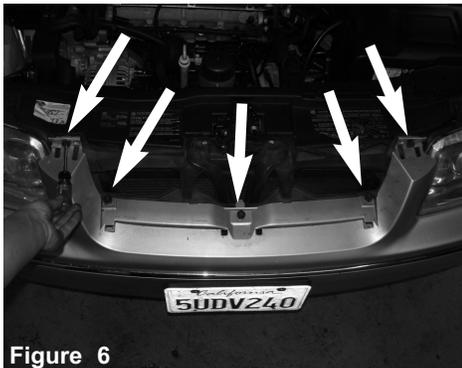


Figure 6
You now have access to the five torx bolts with the grill removed. Use a T25 torx driver to remove the five torx bolts

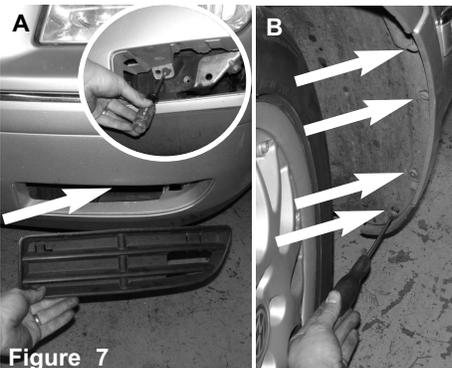


Figure 7
Figure A: Pull firmly on the lower outer grill to remove it to access one torx bolt and repeat for the opposite side. **Figure B:** turn the steering inwards to access four t20 torx bolts on the plastic fender liner.



Figure 8
Figure A: There are 11 T20 torx bolts on the bottom side of the bumper that will need to be removed in order to remove the front bumper. **Figure B:** You may now remove the front bumper by pulling forward.

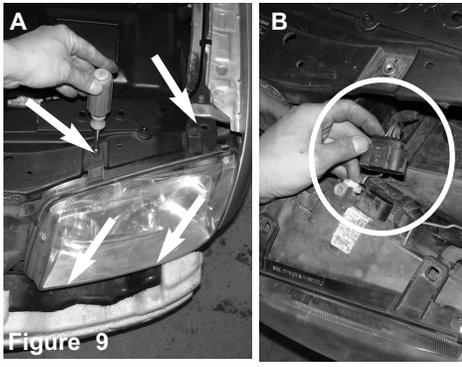


Figure 9
Figure A: Remove four 8mm bolts with a 8mm driver **Figure B:** Pull the headlight forward to unplug the headlight harness and then remove entire headlight assembly

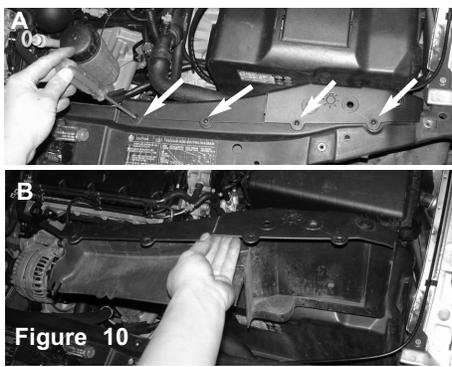


Figure 10
Figure A: Behind the headlight, there is a two piece plastic panel that you will remove four phillips screw from. **Figure B:** Once the four screws are removed, pull the entire two piece panel out.



Figure 11
Figure A: Locate the two plastic rivets and then remove the plastic frame behind the headlight. This frame will no longer be re-used in this installation.

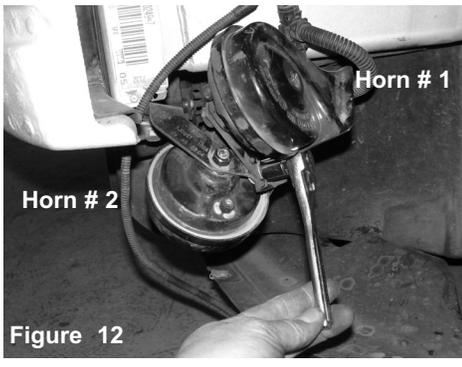


Figure 12
Note the original position of the two horns in the bumper cavity. Use a 13mm socket and ratchet to loosen nuts on horns and relocate horn #1 with horn #2.

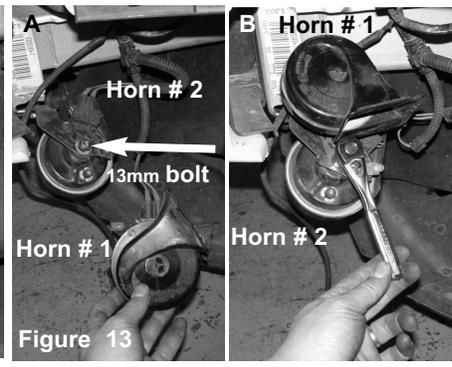


Figure 13
Figure A: Unbolt 13mm nut on horn #2 and remount horn #1 onto horn #2. **Figure B:** Horn #1 is now mounted onto horn #2. This will allow room for placement of the Injen filter

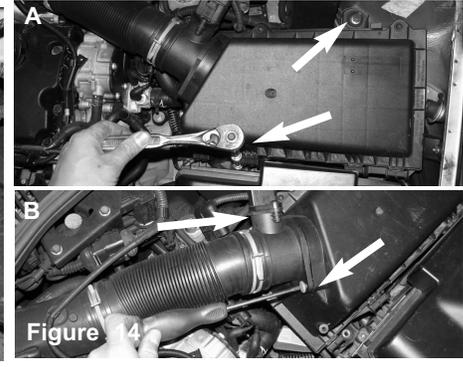


Figure 14
Figure A: use a 10mm socket and ratchet and tighten the two 10mm bolts on the air box cleaner. **Figure B:** Use a T20 torx driver to loosen two torx screws from MAF sensor to air box cleaner



Figure 15

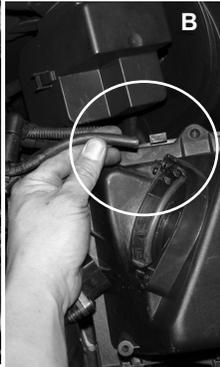


Figure A: Pull the MAF sensor housing out of the air box cleaner. **Figure B:** Unplug the vacuum line from the factory air box cleaner. This vacuum line is next to the opening where the MAF sensor use to go.



Figure 16

Now lift the entire air box cleaner out of the engine bay.



Figure 17



Figure A: On the right side of the battery, locate the air box air duct and unbolt the 10mm nut. **Figure B:** Now remove the entire air duct assembly

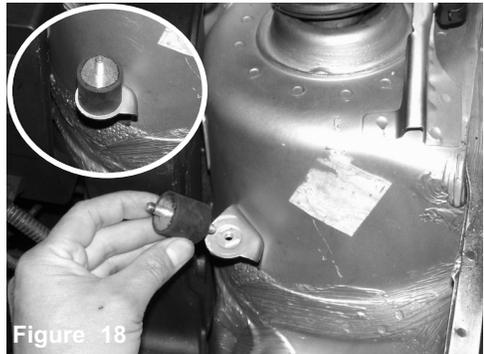


Figure 18

Mount the vibramount on to the factory bracket already mounted on the drivers side shock tower. Vibramount shown mounted on shocktower.



Figure 19

Place the 2.75" straight hose and two 040 clamps onto MAF sensor housing.



Figure 20

Place the silicone TT intake hose into the same path way the factory air duct once was. Make sure the bigger end of the silicone is on the top side.



Figure 21

Position of the silicone TT hose in place. Place a 040 clamp onto the end of the silicone as seen in the photo



Figure 22

Location of other end of silicone TT intake hose in the bumper cavity. Note the location of the horns from figure 12.



Figure 23

Place the smaller aluminum intake tube into the silicone hose and make sure you add a 040 clamp onto the silicone intake tube.



Figure 24

Place the 2.50" filter onto the 2.50" aluminum tube. adjust the pipe and filter for best possible fitment. **NOTE:** horn #1 was relocated to make room for filter in figure 12

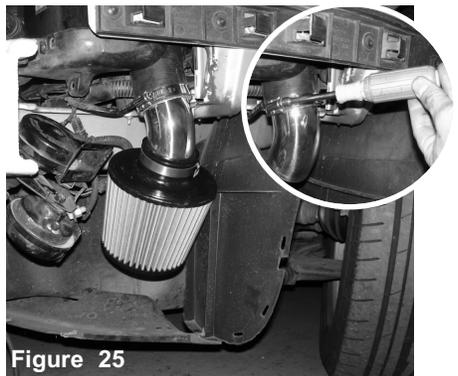


Figure 25

Filter in correct location, free from any contact of other parts. Once filter is in best position, tighten the 040 clamp onto the silicone hose.

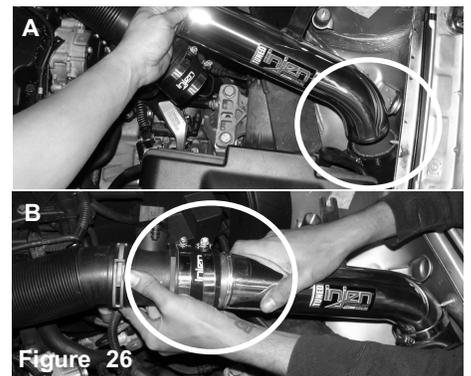


Figure 26

Figure A: Place the short end of the intake pipe and insert it into the TT silicone intake hose. **Figure B:** Now place the long end of the intake tube into the 2.75" straight hose previously installed in figure 19.

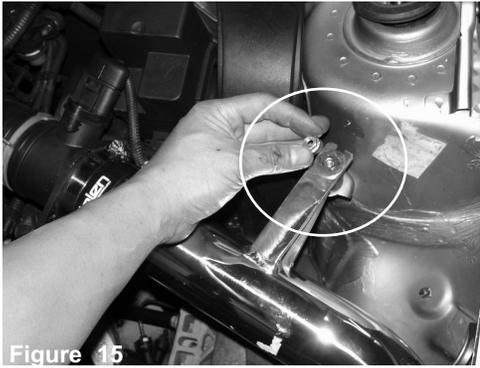


Figure 15

Align the intake bracket onto the vibramount and place a fender washer and M6 nut onto the bracket. Use a 10mm socket and ratchet to tighten the nut to the vibramount.



Figure 16

Once you have made final adjustments for the best fitment, use a 8mm nut driver and tighten the clamp on the MAF sensor hose and also the clamp on the TT silicon hose.



Figure 17

Place the 1 1/2" X 1/4" aluminum coupler into the vacuum hose previously removed from the air box assemble in figure 15



Figure 18

Connect the supplied 6" long 6mm vacuum hose to the 1/4" aluminum coupler from figure 17.

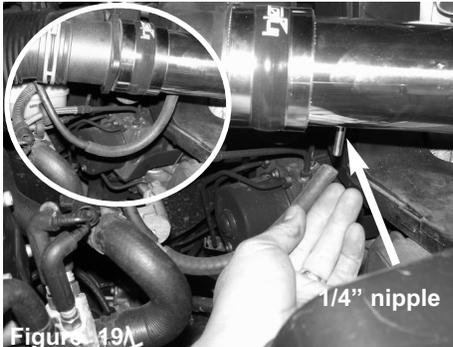


Figure 19

Now attach the 6mm vacuum hose to the welded 1/4" on the Injen intake tube. Picture shown vacuum line connected to intake tube.



Figure 20

NOTE: Be careful with these two component in the engine bay when install the intake tube. Coming in contact with these can scratch the finish on the intake tube!



Figure 21

Make sure everything is tighten. Position for best possible fit.



Figure 22

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.