



R53 Manual Cold Air Intake System

2015-02-24

Thank you for purchasing this ALTA product for your car! Installation of this product should only be performed by persons experienced with installation of aftermarket performance parts and proper operation of high performance vehicles. If vehicle needs to be raised off the ground for installation, the installer must use proper jacks, jack-stands and/or a professional vehicle hoist for safety of the installer and to protect property. If the vehicle is lifted improperly, serious injury or death may occur! Please read through all instructions before performing any portion of installation. If you have any questions, please contact our tech department prior to starting installation. We can be reached in any of the following methods:

Email Tech@ALTApformance.com

Instant Chat off the main page of www.ALTAperformance.com

Or simply call our tech team at 503-693-1702

GENERAL MODIFICATION NOTE

Modifications to any vehicle can change the handling and performance. As with any vehicle extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive a vehicle safely may result in serious injury or death. Do not drive a vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state or country. Consult the owner's manual, service manual, instructions accompanying these products, and local laws before purchasing and installing these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

SPECIAL NOTES:

- Use of the factory service manual can be very helpful during the installation. These can be purchased at the dealership or online. <http://www.realoem.com> has diagrams for the entire car, which can also be helpful.
- Make sure to clean the excess oil from the inside of the filter base. This will ensure that the filter doesn't slip off intake system.
- We recommend that your filter should be cleaned every 5-10,000 miles, depending on local dust and pollutant levels. A special foam filter cleaning kit is available from online and from ATV or motorcycle shops. NOTE: Use of other cleaners and oils can damage filter and void warranty.

Parts Included with the ALTA Intake system:

- (1) ALTA Air Box Shroud (black)
- (1) ALTA Air Filter 2.75" ID
- (1) Silicone Inlet hose one spigot
- (2) #48 hose clamps
- (2) #3 Hose clamps
- (2) #10x.75" SS Sheet Metal screws
- (1) 10-32x.75" SS Phillips screw
- (1) 10-32 SS nut
- (2) #10 SS washers
- (1) 5/16-3/8 reducer
- (26.5") of Bubble on top trim
- (8") of Bubble on side trim

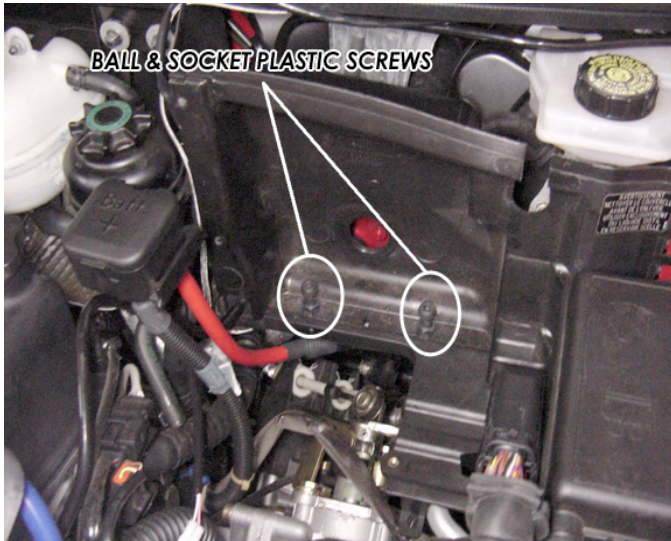
Removal of factory air box: (FIG 1)

- 1) Open hood and disconnect battery (-) terminal in hatch. (Battery is located below carpet in boot.)
- 2) Cut hose clamps from intake tube. (1) At throttle body, (1) at air box top, (2) fresh air tube
- 3) Remove 10mm bolt connecting air box to motor mount.
- 4) Remove ECU cover and remove (2) ECU plugs. (Plugs have small "pull tabs" that eject them from ECU. Pull these to release plugs.)
- 5) Release (+) battery terminal from passenger side of air box. Leave electrical connections intact.
- 6) Remove air box top and filter (2) screws. Remove lower portion of air box, fresh air tube and intake tube from throttle body.
- 7) **Remove plastic shroud/firewall trim panel!!!** (2) "Ball and socket" plastic screws located near bottom of panel, (2) 8mm screws passenger side. Note: 2003+ models may have additional "pop-it" fastener on driver's side. (FIG 2)

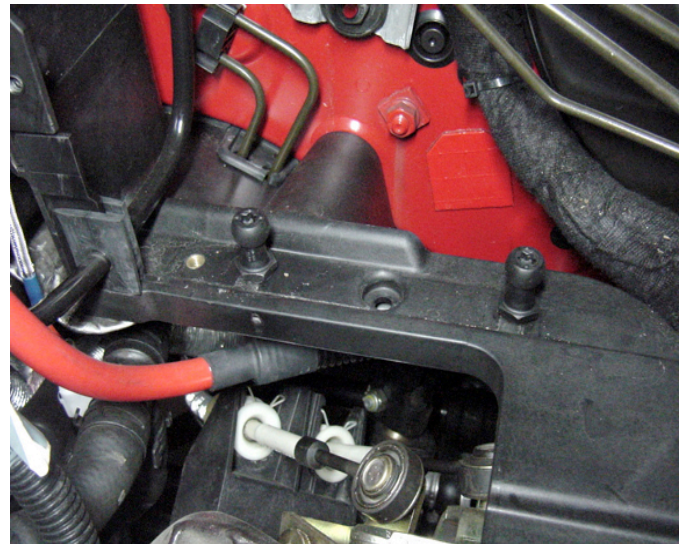
Installation of intake system:

- 1) Re-install (2)"ball and socket" screws into the holes they were removed from. **Do not reinstall plastic shroud/firewall trim panel!** (FIG 3)
- 2) Re-install lower factory air box lower portion. Note: Do NOT re-install 10mm bolt removed earlier at this time! Do not install fresh air scoop yet.
- 3) Slide new shroud into position between the factory air box bottom portion and fuse block.
- 4) Using (2) sheet metal screws provided, attach new shroud to bottom of air box. (FIG 4)
- 5) Re-install (2) 8mm screws through shroud on passenger side.
- 6) Install supplied bolt/nut through hole on drivers side shroud. NOTE: Early 2003 and older cars will require a 3/16" hole to be drilled prior to bolt installation. Use shroud to locate. Use touch-up paint after drilling to prevent rust!
- 7) Re-install (1) 10mm bolt removed earlier through air box into motor mount.
- 8) Install silicone tube over throttle body and align but don't tighten to shroud. Tighten using supplied clamp at throttle body. (remove the throttle body electrical connection to aid in getting to hose clamp)
- 9) Once silicone hose is tightened to throttle body carefully fold back silicone hose and insert the fresh air scoop to air box bottom.
- 10) For 6spd manual transmission, re-connect crankcase tube using union found in factory intake tube.
- 11) Connect silicone intake tube to shroud. Tighten supplied clamp. Note: it helps to reach into shroud to aid in getting silicone over tube.

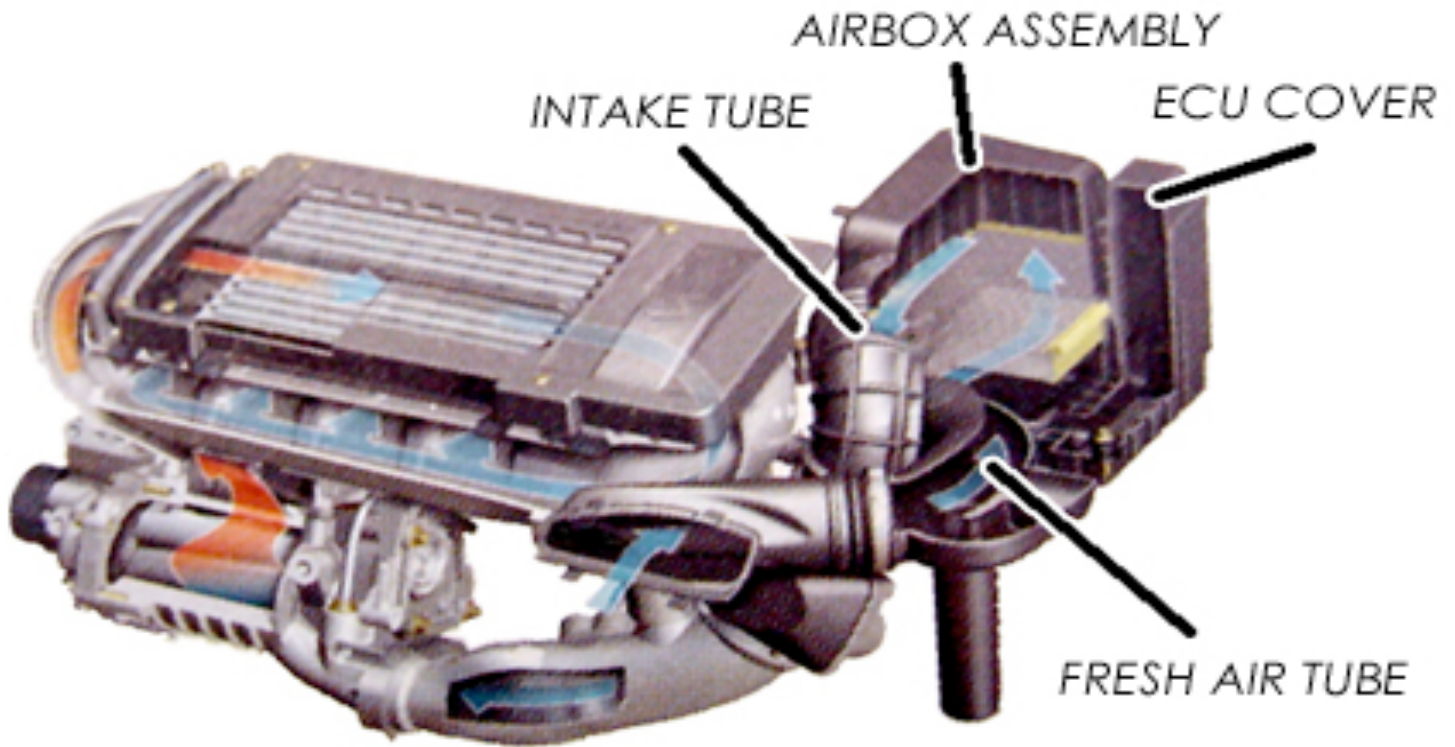
- 12) Before installing filter make sure to wipe off excess amount of oil from out side of filter. Also make sure to wide out **ALL Excess Oil** from inside of filter neck and tighten hose clamp. Damage can occur if clamp is tightened too much. If filter proceeds to fall off of connection on box, remove and re-clean. Do not over tighten clamp on filter to try to keep in place.
- 13) Install supplied straight trim seal to air box top on the 3 forward surfaces. Install supplied 90-degree trim to lower passenger side to seal lower portion of air box.
- 14) Re-install factory trim seal to remaining exposed shroud top. Note: Trim factory seal on passenger and driver side of new shroud. Leave small "L" shaped piece on passenger side.
- 15) Re-install (+) battery terminal onto new shroud. Stay is provided on passenger side.
- 16) Re-connect (2) plugs to ECU removed prior. **NOTE: TAKE EXTRA CARE NOT TO DAMAGE PINS OF ECU WHEN RE-CONNECTING PLUGS.**
- 17) Re-install ECU cover and check all connections and installation. (if throttle body plug was removed earlier, make sure to plug it back in)
- 18) Re-connect - battery terminal and close hatch. Start car.



Plastic screws that need to be removed



Screws installed after wall removed



OEM SETUP



Completed Install: Note trim around box and wall removed

Questions, Comments and Suggestions Contact: Tech@ALTAperformance.com
Visit Our Website for Instant Chat Options at <http://www.ALTAperformance.com>
Call Our Tech Team at 503-693-1702