



R53 Tensioner Stop

2013-05-09

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.
- The engine needs to be jacked up to install part. A high quality floor jack is needed in order to do this.
- Installation of this part can be done with with out jacking the engine completely up, but we recommend going the extra step to make installation easier.

Parts included with your Tensioner Stop

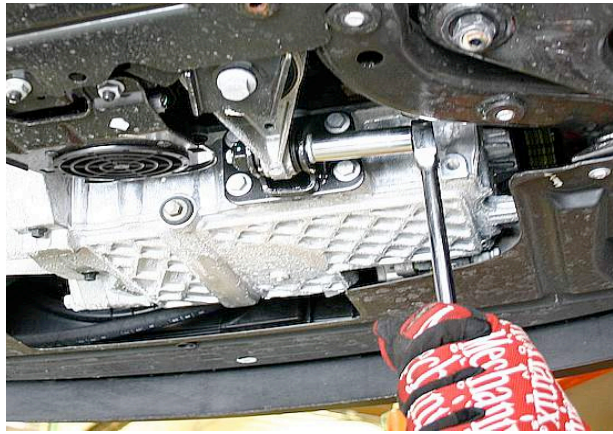
- ALTA Tensioner Stop

Installation of ALTA Tensioner Stop:

- 1) Remove 10mm bolt securing top radiator hose to intake manifold. (Shown in left pic below)
- 2) Remove (4) 10mm bolts holding coil pack to top engine. (Shown in right pic below) This is done to allow engine to be raised up.



- 3) Remove lower motor mount bolt. Use 16mm wrench to remove bolt. (Shown in pic below)
- 4) Place suitable jack under engine oil pan, making sure to put a small piece of wood between jack and pan. Lift Jack to bottom of pan and lift engine up approximately .25"



- 5) Remove intake system from car to allow access to drivers side motor mount. This step will vary greatly depending on intake system installed. Removing ECU plugs, and harnesses is a necessary step for all intakes. Remove ECU cover (to small tabs on each side), using suitable tool, pull-tabs on front and back of ECU plugs. This will eject plug off of ECU. (Shown in left pic below)



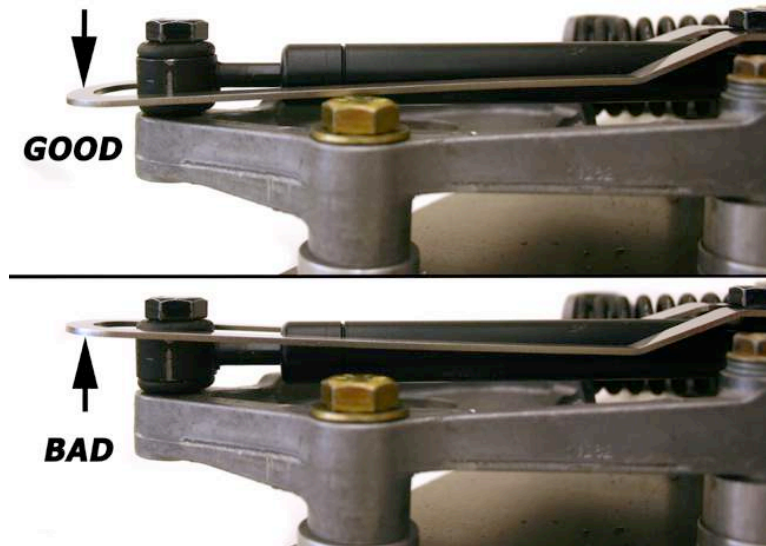
- 6) Once intake system is removed, remove (2) 10mm bolts holding fuse block to chassis. Move fuse block toward center of car to expose (3) 16mm motor mount bolts. (Shown in right pic above)
- 7) Remove (3) long 16mm bolts from motor mount on driver's side. (Shown in right pic above) Once removed, put towel between cast aluminum mount and chassis. This will protect chassis from getting scratched by the motor mount when raising engine up.
- 8) Remove grounding strap on passenger side connecting chassis to motor mount. (Shown in left pic below)
- 9) Remove passenger side motor mount nut located on chassis motor mount. 02-04 cars will need to remove pitch control bracket. This requires the removal of a vertical 16mm bolt and a horizontal 16mm bolt. (Shown in right pic below)
- 10) Remove (4) 16mm bolts from passenger side engine mount bracket. (Shown in right pic below)



- 11) Unclip purge solenoid valve from bracket and remove mounting bracket from car. (Shown in left pic below)
- 12) Using jack, raise engine up until tensioner has enough clearance to replace. Some wiggling of engine may be necessary as engine is raised.



- 13) With OEM tensioner now exposed, located black 13mm headed bolt closest to tensioner pulley (seen in above right pic). Unscrew bolt roughly 3-4 turns.
- 14) With bolt loosened, slip ALTA tensioner stop underneath head of screw. Sliding it at angle underneath head of bolt makes it go on easier. Slide bigger end over end of Tensioner Dampener as shown below.
- 15) The clearance of tensioner to rear of motor WILL be tight. Also do to the nature of the SS part and how it is installed it is possible that the bracket could get bent slightly. Take special care that end is pushed toward engine, below center of tensioner, not away as shown below.



- 16) When installing tensioner, make sure the rubber trim piece is placed between the tensioner body and ALTA tensioner stop. The rubber trim is there to keep the tensioner from rattling. (NOTE: It comes installed this way from the factory, but be sure it didn't come off)
- 17) With tensioner installed and aligned properly, tighten down 13mm bolt to tensioner.
- 18) Once tensioner stop is installed, reinstall motor mounts, intake system and other parts removed earlier, in reverse order starting from step 12.
- 19) Start engine to test for any strange noises.

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