



R53 Adjustable Tensioner Stop

2012-10-03

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@ALTAperformance.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:

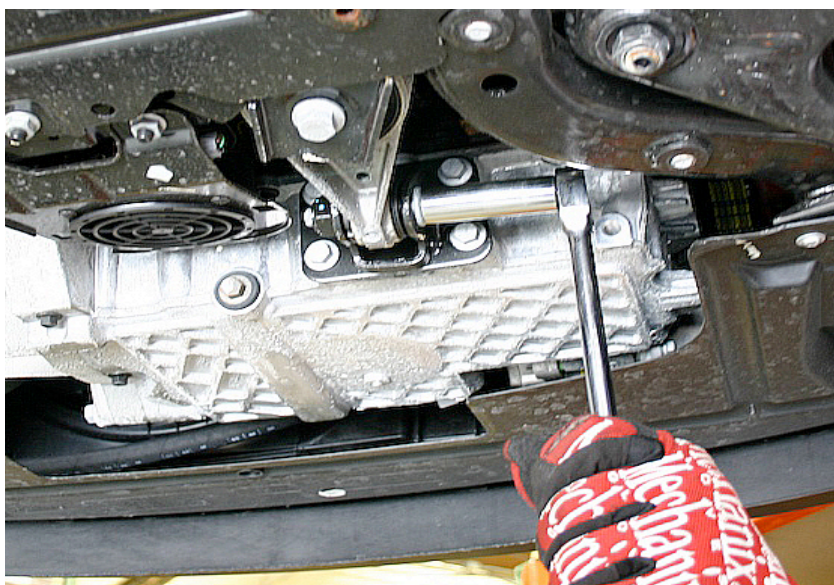
- Use of the factory service manual can be very helpful during the installation. These can be purchased at the dealership or online. <http://www.realoem.com> has diagrams for the entire car, which can also be helpful.
- Installation of this part can be done with out lowering the engine, but we recommend going the extra step to make installation easier.
- If your belt has ever failed, and or the hydraulic dampener has been blown, its possible that this could cause some fatigue on the cast aluminum mounting bracket. **It is very important NOT to over tighten the ALTA Adjustable Tensioner Stop.**

Parts included with your Adjustable Tensioner Stop

- ALTA Adjustable Tensioner Stop

Installation of ALTA Adjustable Tensioner Stop:

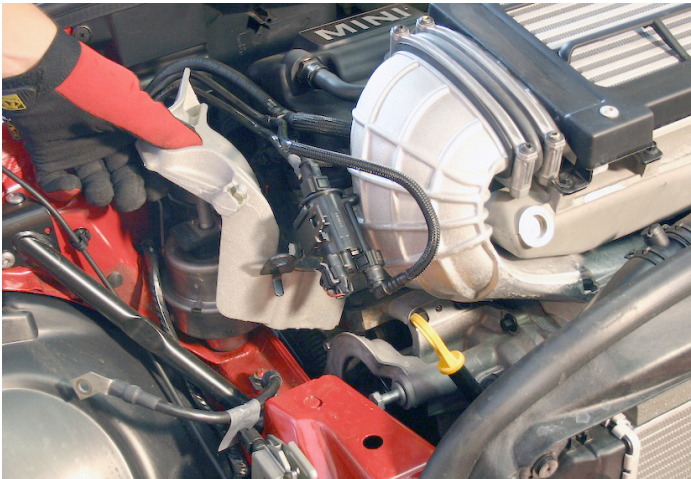
- 1) Raise up right side of vehicle and place on a jack stand. Remove right side wheel and inner fender liner. Locate (5) plastic fasteners to remove and pull front half of fender liner down and out of the way. This can be completely removed, but its not necessary as long as the tensioner dampener is accessible after lowering engine.
- 2) Remove lower motor mount bolt. Use 16mm wrench to remove bolt. (Shown in pic below)
- 3) 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"



- 4) Remove grounding strap on passenger side connecting chassis to motor mount. (Shown in left pic below)
- 5) 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)
- 6) Remove (4) 16mm bolts from passenger side engine mount bracket. (Shown in right pic below)

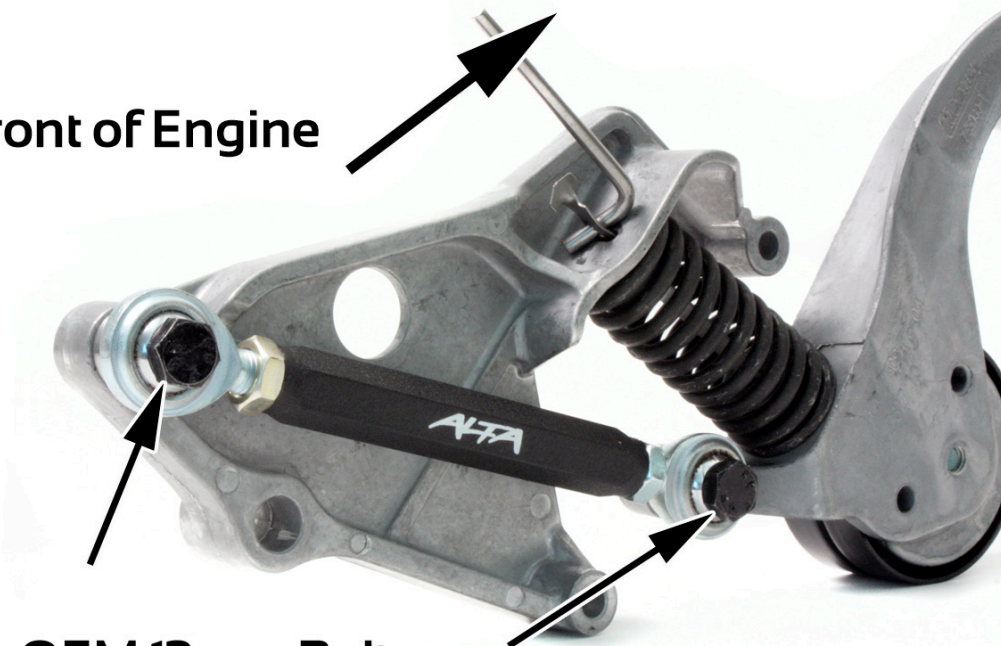


- 7) Unclip purge solenoid valve from bracket and remove mounting bracket from car. (Shown in left pic below)
- 8) Using jack, lower engine slowly until OEM tensioner dampener can be seen. This is the longer black hydraulic part connecting tensioner arm to engine. Some wiggling of engine may be necessary as engine is lowered.



- 9) With OEM tensioner dampener exposed, locate and remove (2) black 13mm headed bolts securing tensioner dampener to engine, and remove dampener from car. We highly recommend having 13mm Gear Wrench type wrenches for this step and for the installation steps.

Front of Engine



OEM 13mm Bolts

- 10) Install ALTA Tensioner Stop in place of dampener using bolts removed earlier, making sure to put spacers toward the engine side. Adjust length of ALTA Tensioner Stop until bolts thread cleanly into holes. Tighten 13mm bolts to roughly 15-18ft-bs.
- 11) With ALTA Tensioner Stop in place, screw center hex shaped rod by hand until a slight amount of tension is felt. This is your starting place for where to add tension to your Supercharger pulley belt.
- 12) The amount of tension needed is roughly $\frac{1}{2}$ turn to 1 turn. This can be done using a $\frac{3}{4}$ " wrench or small adjustable wrench while working from the bottom of the car. **NOTE: More can be added, but keep in mind that the spring is already providing tension on belt. Once a year or every 10,000 miles or every year, it's a good idea to check the tension on the belt to ensure more tension doesn't need to be added. To do this, loosen the lock nuts and spin body until there is no tension on the body. Then add your half to one full turn and retighten lock nuts.**
- 13) Once adjustment is made, Hold body of Tensioner Stop with wrench and lock down lock nuts using a $\frac{9}{16}$ " wrench. This can be a little tricky but working from the bottom side is the easiest way.
- 14) Once installed and adjusted, reinstall fender liner, raise motor back into place, reinstall motor mounts, and other parts removed earlier.
- 15) Start engine to test for any strange noises. After roughly 20minutes of driving, recheck bolts securing ALTA Tensioner Stop to engine.

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