



MCS/JCW Blow Off Valve Spring Upgrade

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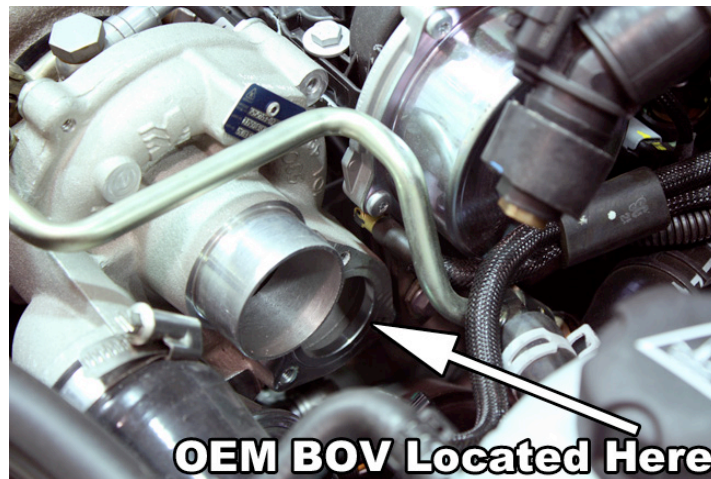
Thank you for purchasing the ALTA Performance Blow Off Valve Stiffy. Persons experienced in the proper operation of MINI engines and turbochargers should only perform installation. Please read through all the instructions before performing the installation.

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 3 bolts securing BOV to turbo have thread locker on them, take time in removing.
- If your Blow Off Valve has a sticky or oily substance on the rubber valve, its important to clean this off using a proper degreaser. It also is a good idea to clean this off periodically as they can become stuck over time. Especially on Automatic cars where the Blow Off Valve is not operated as often.

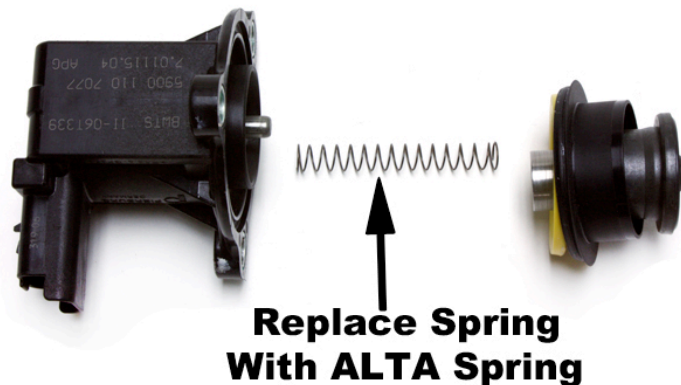
Parts Included with the ALTA Blow Off Valve Spring Upgrade:

- (1) ALTA Blow Off Valve Spring.
- (1) ALTA Sticker



Installation of ALTA BOV Spring Upgrade:

- 1) Open hood and locate turbocharger at front of engine.
- 2) Remove turbo inlet pipe to expose OEM Blow off Valve. This is the black unit held on by 3 bolts just below the turbo inlet.
- 3) Unplug electrical connection, remove (3) 5mm allen bolts from blow off valve (BOV). Carefully remove from car making sure to not loose o-ring used to seal BOV to turbo.
- 4) Using light pressure remove BOV diaphragm cap (Generally piston, diaphragm and cap come off together) from BOV body. Locate and remove OEM spring from inside and replace with ALTA BOV spring.



- 5) Reinstall diaphragm cap (With piston and diaphragm) making sure to snap together around entire body.
- 6) Reinstall BOV to car making sure that o-ring is placed in groove on BOV. Applying a small amount of grease to groove install o-ring.
- 7) Rotate BOV until all 3 bolts holes line up and install OEM bolts and tighten to 12-15ft-lbs. Plug electrical connection back in.
- 8) Reinstall turbo intake pipe and start engine to ensure no check engine lights are on.
- 9) Take car for test drive and listen for anything that sounds like a chirping during shifts (automatic customers will need to lift throttle to test this). If these sounds occur, it could be a sticking BOV or mis-assembled part. Please repeat installation.

For questions & comments please contact

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