



Install Instructions:

S38B36/B38 Variable Resonance Actuator





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From all of the asses at Angry Ass, thank you for purchasing an Angry Ass S38B36/B38 variable resonance actuator!

Please read this entire installation manual prior to attempting to install or use the Angry Ass S38B36/B38 variable resonance actuator to ensure proper installation and safe use.

The Angry Ass S38B36/B38 variable resonance actuator should only be installed by persons skilled in vehicle component installation and performance. Angry Ass Limited shall not be held liable for any damage or personal injury (including direct, indirect, or consequential damage) sustained as a result of improper installation of the Angry Ass S38B36/B38 variable resonance actuator or its use and maintenance contrary to the instructions and warnings contained herein.

If you have any questions regarding the installation and/or proper use of the Angry Ass S38B36/B38 variable resonance actuator, or this manual, please contact Angry Ass via our official website at: www.Angry-Ass.com.

All statements made are made in respect to the Angry Ass S38B36/B38 variable resonance actuator being used "as is". Any modifications to the Angry Ass S38B36/B38 variable resonance actuator or its improper installation, use or maintenance that is not in accordance with this installation manual, may result in severe damage to the intake system and/or engine, as well as personal injury. The Angry Ass S38B36/B38 variable resonance actuator and consumption of refreshing beverages (alcoholic or otherwise) may only be used in accordance with relevant laws and regulations, including state and federal, where applicable. Angry Ass Limited reminds you to be responsible and stay safe!!

Thanks again for choosing Angry Ass!



PARTS LIST

The following parts are contained in your kit:

1. Loctite 242 capsule
2. Super Lube capsule
3. Angry Ass S38B36/B38 variable resonance actuator

TOOLS & SHOP SUPPLIES

You will need to provide the following:

1. 1/4 or 3/8 Drive 5mm Allen hex key
2. 1/4 or 3/8 Drive torque wrench capable of 10Nm
3. 1/4 or 3/8 Drive ratchet
4. Paper towel or shop rag
5. Alcohol (non-drinking, see #5) or degreaser
6. Refreshing beverage of choice



1. Unpack your actuator, grease, and Loctite 242. Equip yourself with a refreshing beverage, or two. See Figure 1 for an example.



Figure 1



2. Remove the stock actuator. First disconnect the vacuum line by pulling it away from the actuator. Remove the two M6 bolts using the 5mm Allen and ratchet. Finally, disconnect the ball socket from the ball by gripping the actuator rod, and pulling away from the plenum. Once finished with Step 2, your engine should resemble Figure 2.

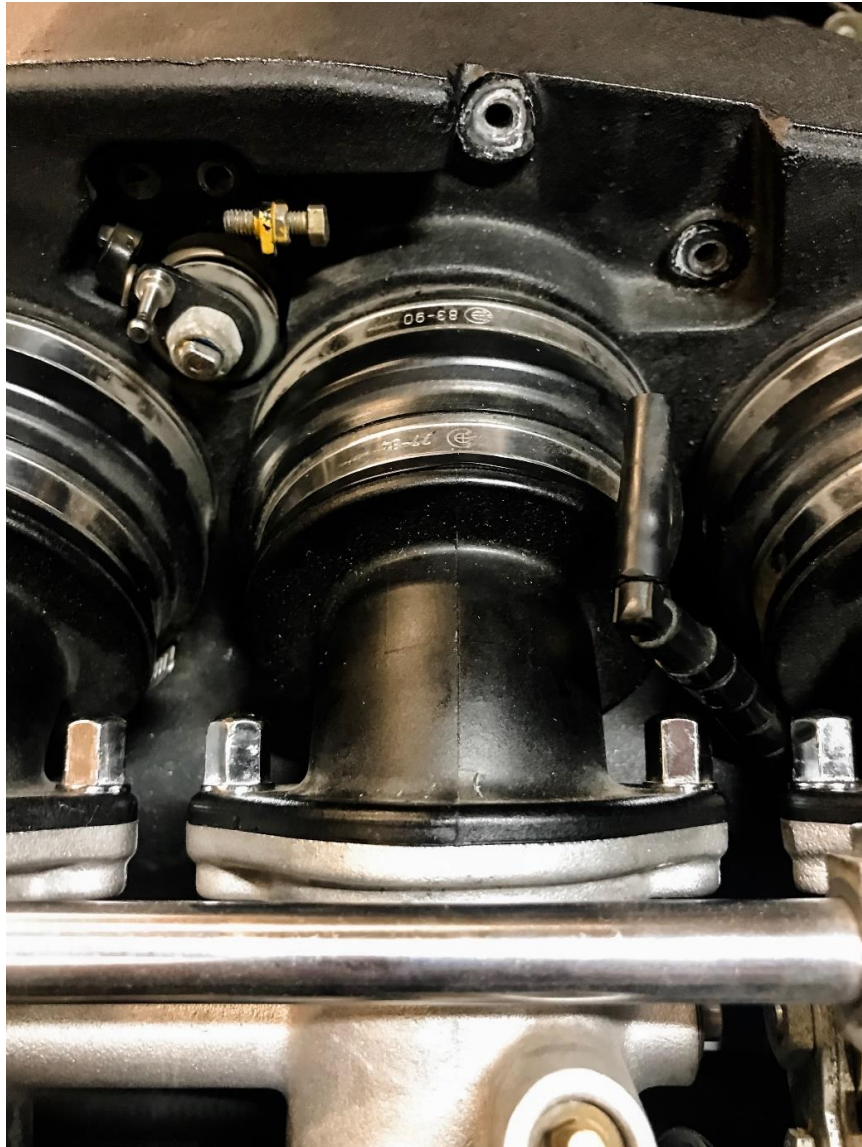


Figure 2



3. Using rubbing alcohol or another suitable cleaner, clean the ball joint of any contaminants.

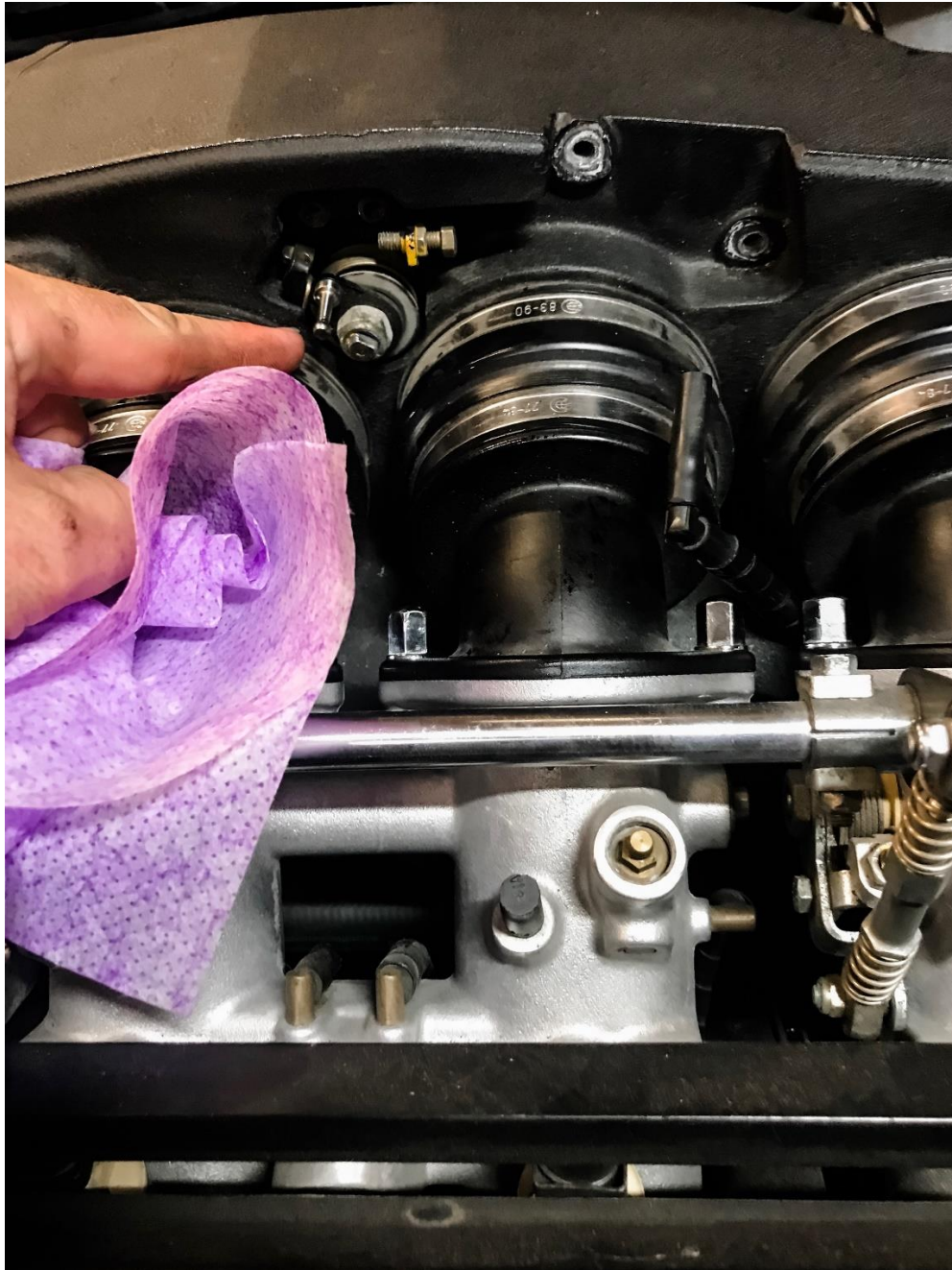


Figure 3



4. Apply Super Lube grease to the Angry Ass S38B36/B38 actuator ball socket by tearing the package tab off and squeezing.



Figure 4



Only a small dab is needed, as shown in Figure 5. Use the rest for something else.



Figure 5



5. Apply Loctite 242 to the 2x M6 bolts that retained the OEM actuator to the intake plenum, shown in Figure 6.



Figure 6



6. Orient the actuator rod, taking note of the ball socket to mounting bracket orientation, as shown in Figure 7. Now is a good time to take a sip from your refreshing beverage. This is hard work.



Figure 7



7. Align the Angry Ass S38B36/B38 actuator with the two mounting holes on the intake plenum, and tighten the two M6 bolts till snug with the 5mm Allen and ratchet into the plenum.

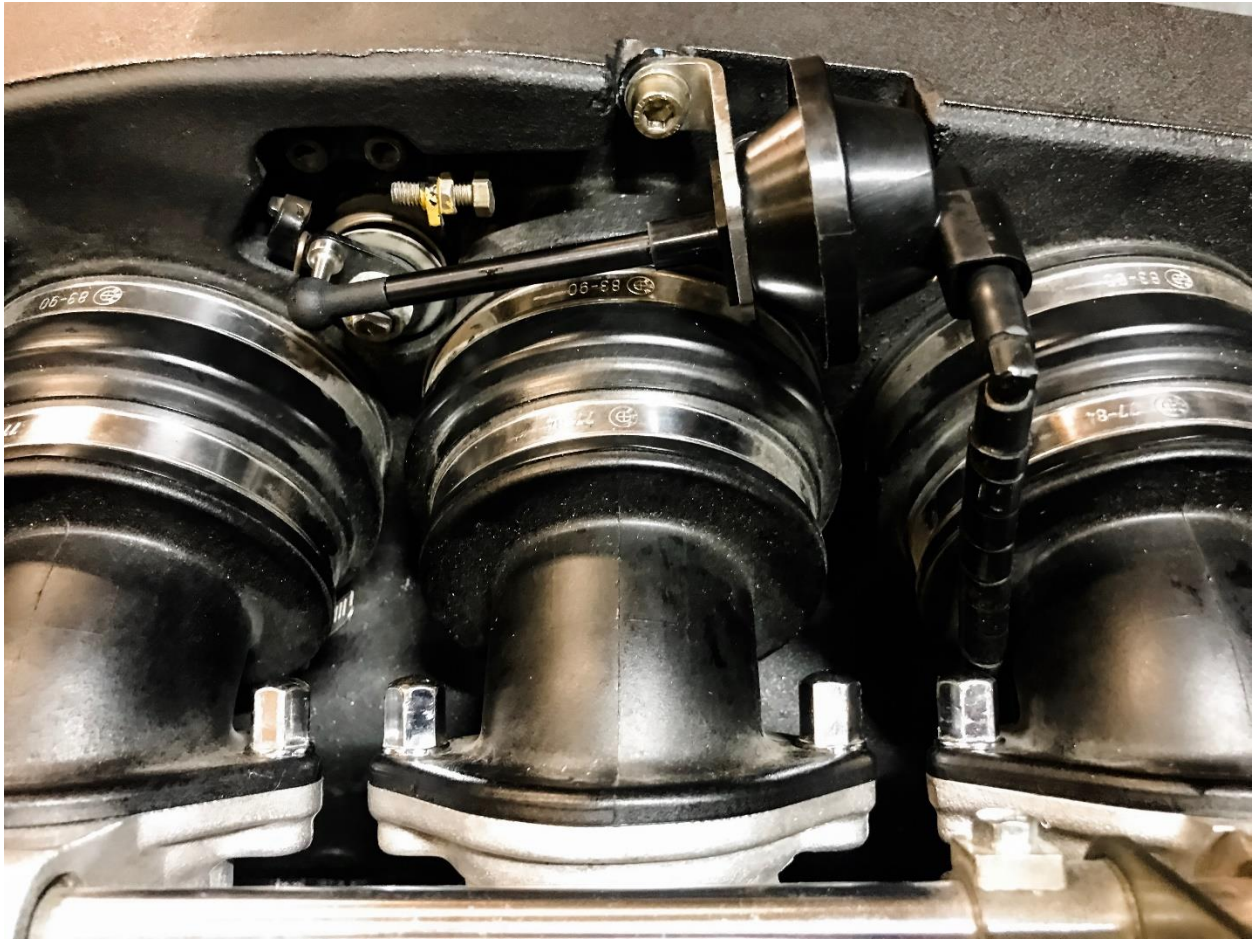


Figure 8



8. Set your torque wrench with the 5mm Allen hex to 10Nm, as shown in Figure 9.



Figure 9



9. Tighten the M6 retaining bolts for the Angry Ass S38B36/B38 actuator to the plenum, to 10Nm. **DO NOT OVER TIGHTEN, RAMBO!!!**

10. Press the ball socket of the Angry Ass S38B36/B38 actuator onto the ball end of the resonance flap.

11. Connect your vacuum line to the Angry Ass S38B36/B38 actuator (it helps to lightly lubricate the nipple with beer, spit, or other. Ahem. Dont use the Super Lube). Final installation should resemble Figure 10.



Figure 10



12. Finish your refreshing beverage, take pictures, and post to your favorite social media platform(s). Be sure to mention us at Angry Ass! And never mix drinking and driving, but please test the new actuator vigorously when you are fit to drive.



TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Actuator not functioning	Lack of Vacuum	Check vacuum lines, reservoir and one way valve for leaks. Replace with new components.
	Vacuum solenoid not functioning	Apply +12v at (+) position on solenoid while grounding (-) position to chassis.
Actuator ball socket loose	Loosened socket from shipping	Hand tighten ball socket and reorient. DO NOT OVERTIGHTEN OR APPLY THREAD LOCKERS!
Loose vacuum actuator in bracket	Improperly pinched mounting bracket	Ensure the vacuum actuator is seated in bracket and use pliers or equivalent to pinch mounting bracket tabs shut.
Loose vacuum actuator rod to vacuum diaphragm	Poor bond during assembly	Contact Angry Ass. Please don't yell at us.



NOTES