



Porsche 911 Turbo Wastegate Actuator Upgrade

The goal of AMS is to provide the highest quality, best performing products available. By utilizing research and development, and rigorous testing programs, AMS will never compromise the quality or performance of our products. In addition, AMS will only provide the finest customer service offering only parts and advice that are in the best interests of the customer. AMS was built on a foundation of integrity. This is who we are, this is what you can count on.

A vehicle modified by the use of performance parts may not meet the legal requirements for use on public roads. Federal and state laws prohibit the removal, modification, or rendering inoperative of any part or element of design affecting emissions or safety on motor vehicles used for transporting persons or property on public streets or highways. Use or installation of performance parts may adversely affect the drivability and reliability of your vehicle, and may also affect or eliminate your insurance coverage, factory warranty, and/or new OEM part warranty. Performance parts are sold as-is without any warranty of any type. There is no warranty stated or implied due to the stresses placed on your vehicle by performance parts and our inability to monitor their use, tuning, installation, or modification.

These instructions are provided as a guide only as there are many variables that cannot be accounted for concerning your particular vehicle, including but not limited to model year differences, model differences, the presence of non-OEM parts, and modifications that may already be or were previously installed. A basic knowledge of automotive parts and systems is helpful but a better understanding of the parts and systems on your particular vehicle may be required.

If you have any questions or issues at any time during the installation of your AMS product(s) please call us for technical assistance. The AMS tech line can be reached at 847-709-0530 during business hours for AMS products only.

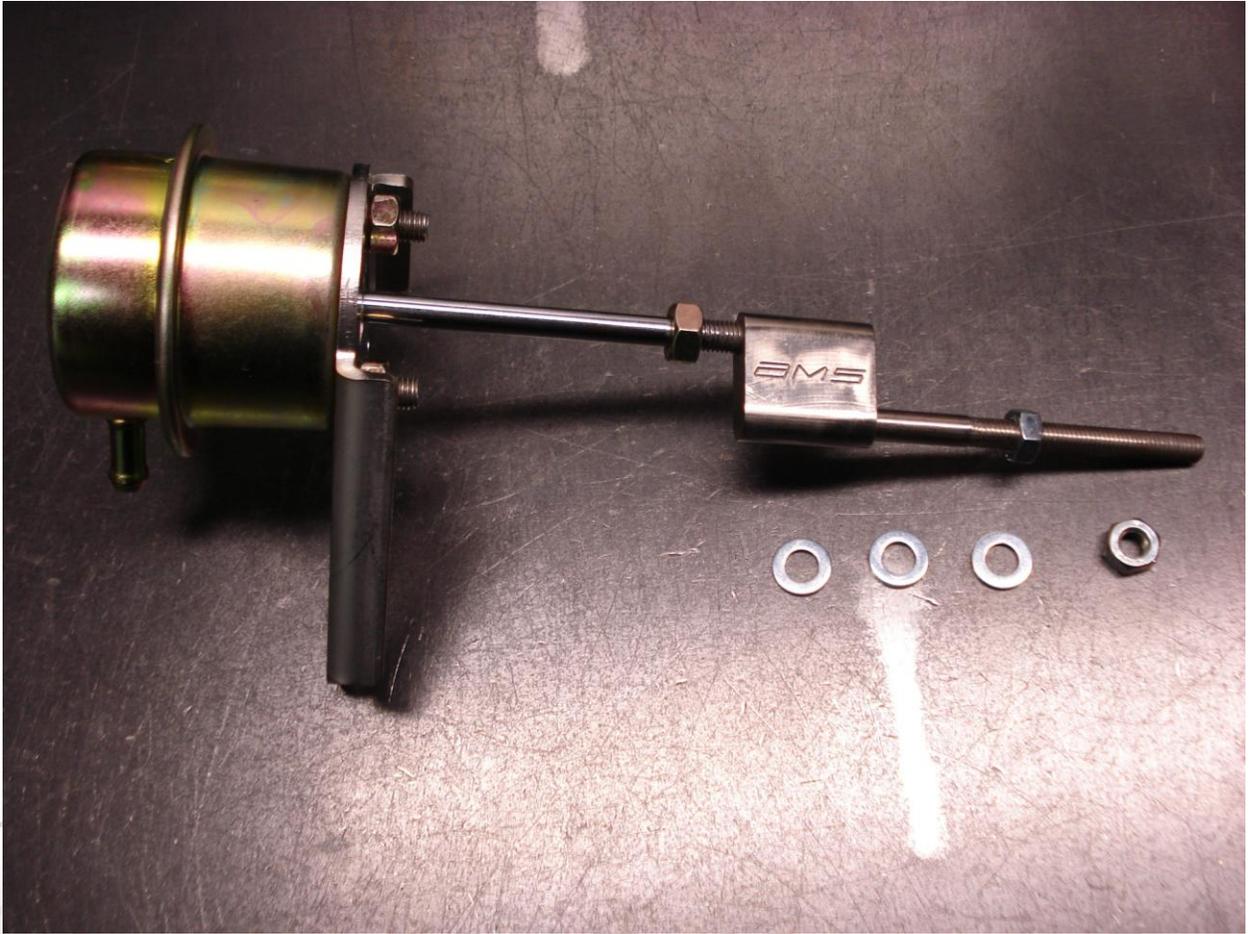
The AMS Porsche 911 Turbo (996) 1 bar Wastegate Actuator Upgrade allows you to adjust pre-load eliminating the possibility of your wastegates opening prematurely. This ensures you reach and hold your maximum target boost level to redline.

The AMS units are completely bolt-on and will work on any 996-based turbo that utilizes the stock wastegate actuators.

Installation Instructions:

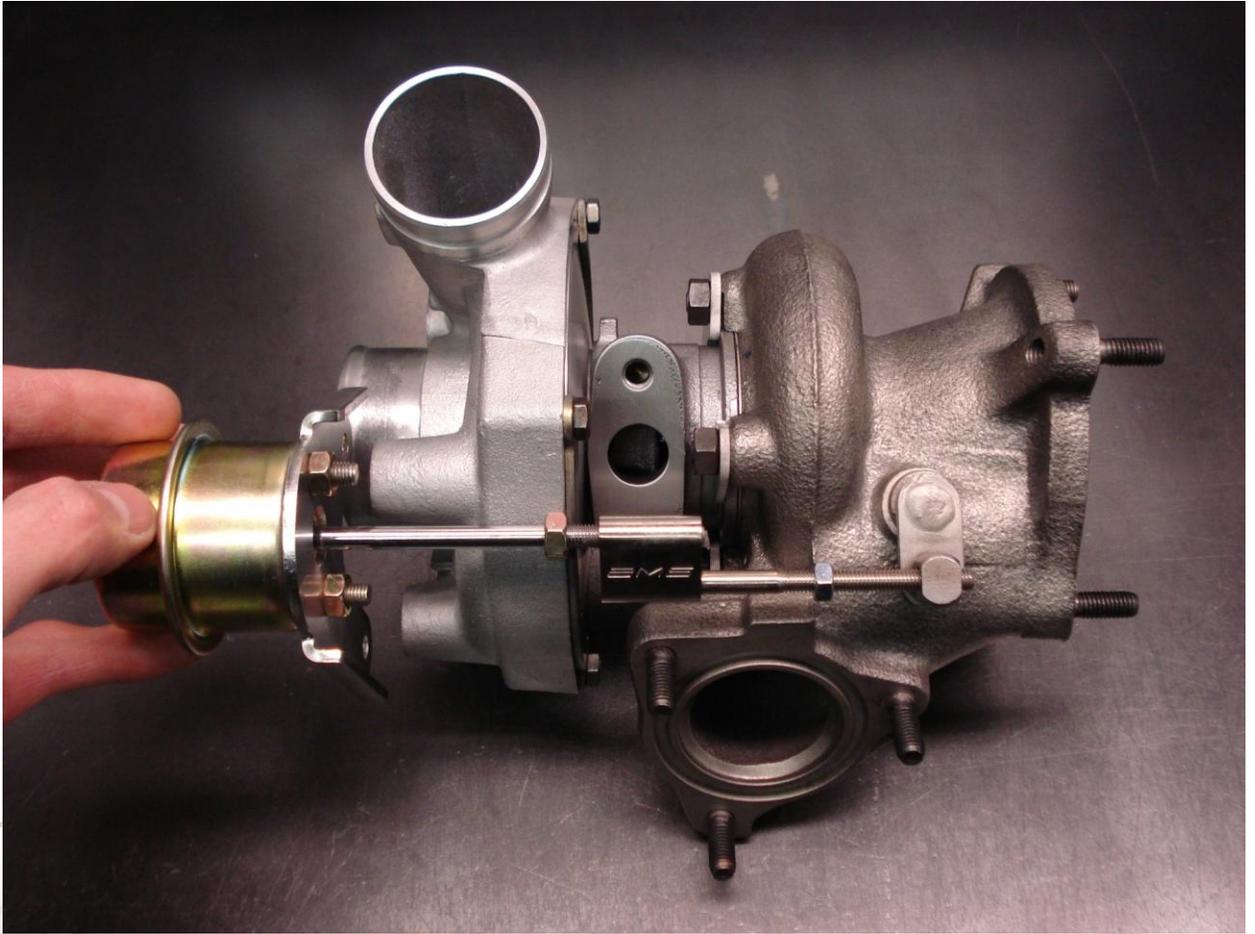
- 1) Remove the stock wastegate actuator (WGA) from the driver's side turbo.
- 2) Locate the AMS driver's side WGA which is identified by the bracket with asymmetrical mounting points. Loosen the jam nuts and remove the washers and nut as shown.





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- 3) Position the AMS WGA on the turbo with the rod going through the eyelet on the arm, then bolt the bracket to the compressor cover with the supplied M6 bolts.



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- 4) Place the 3 washers and nut removed in step #2 back on the WGA rod. Thread the nut by hand until it bottoms out on the arm eyelet and there's slight tension on the rod.



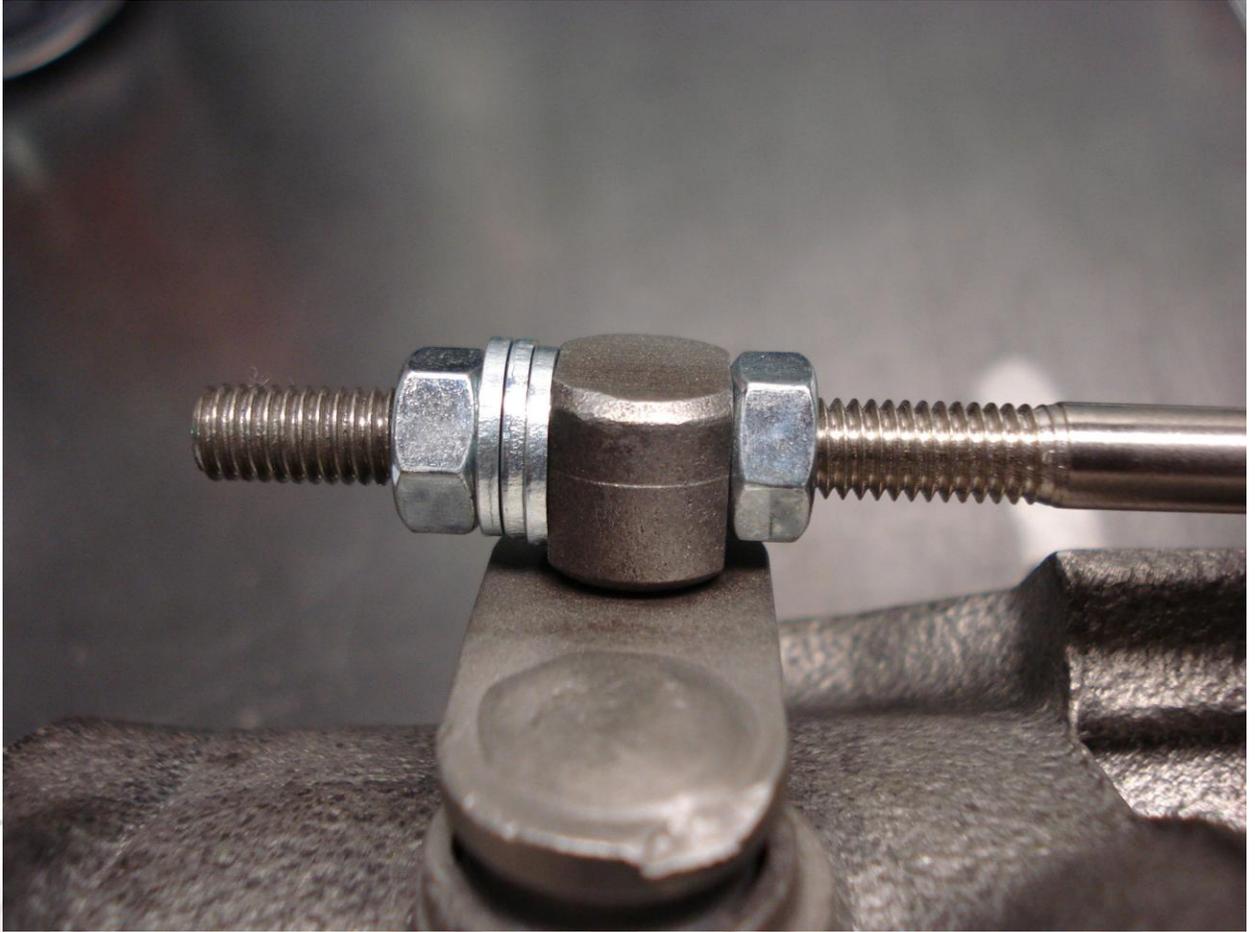
- 5) Now set the preload. Measure the length of the WGA rod that is sticking out from the end jam nut in millimeters (yellow line). Now tighten the nut until there's an additional 1-2mm which is the recommended starting point.



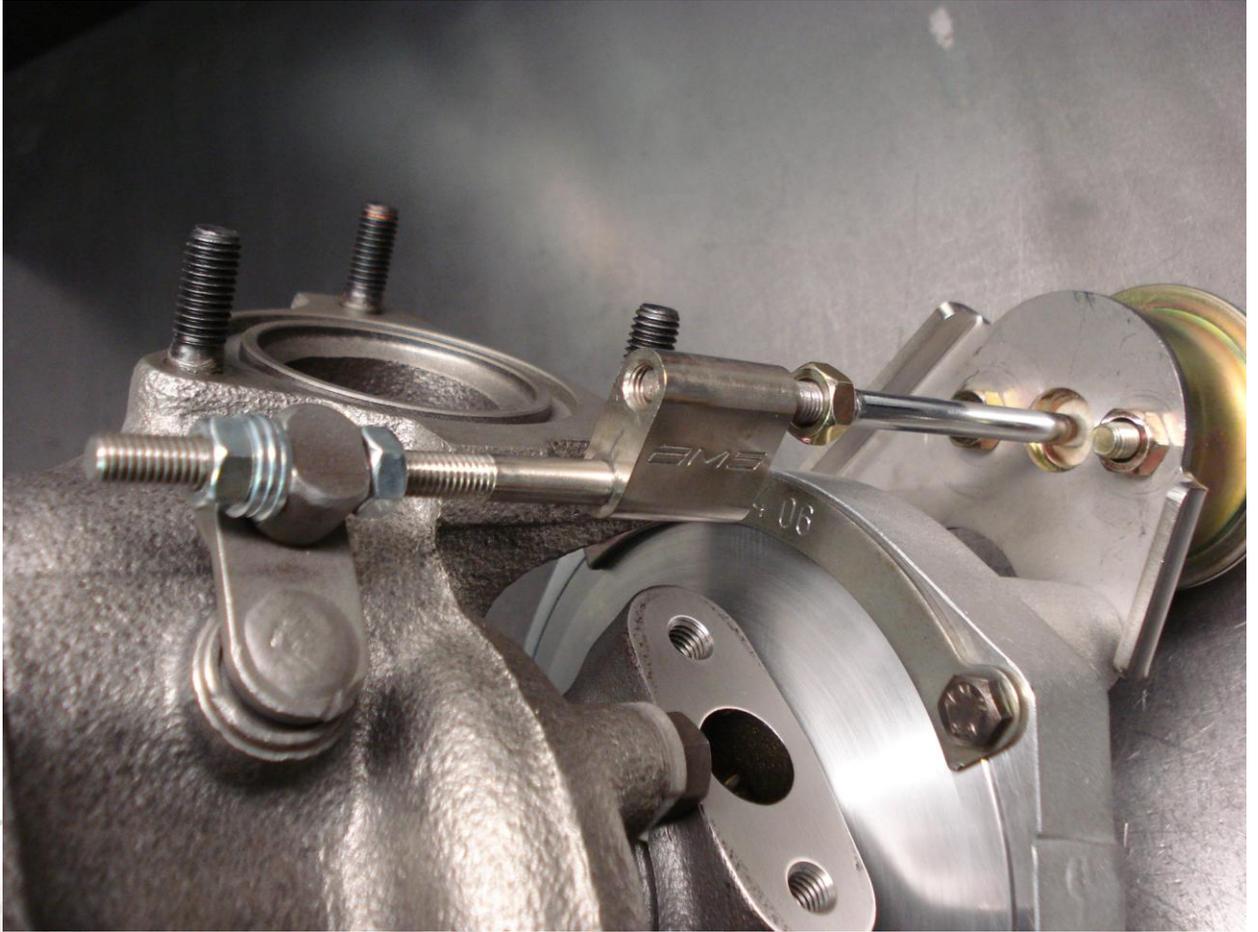
- 6) After initial preload has been set, but before final tightening the WGA rod and AMS extension rod must be in alignment to prevent them from binding. Check to make sure the WGA rod is centered in the bracket.



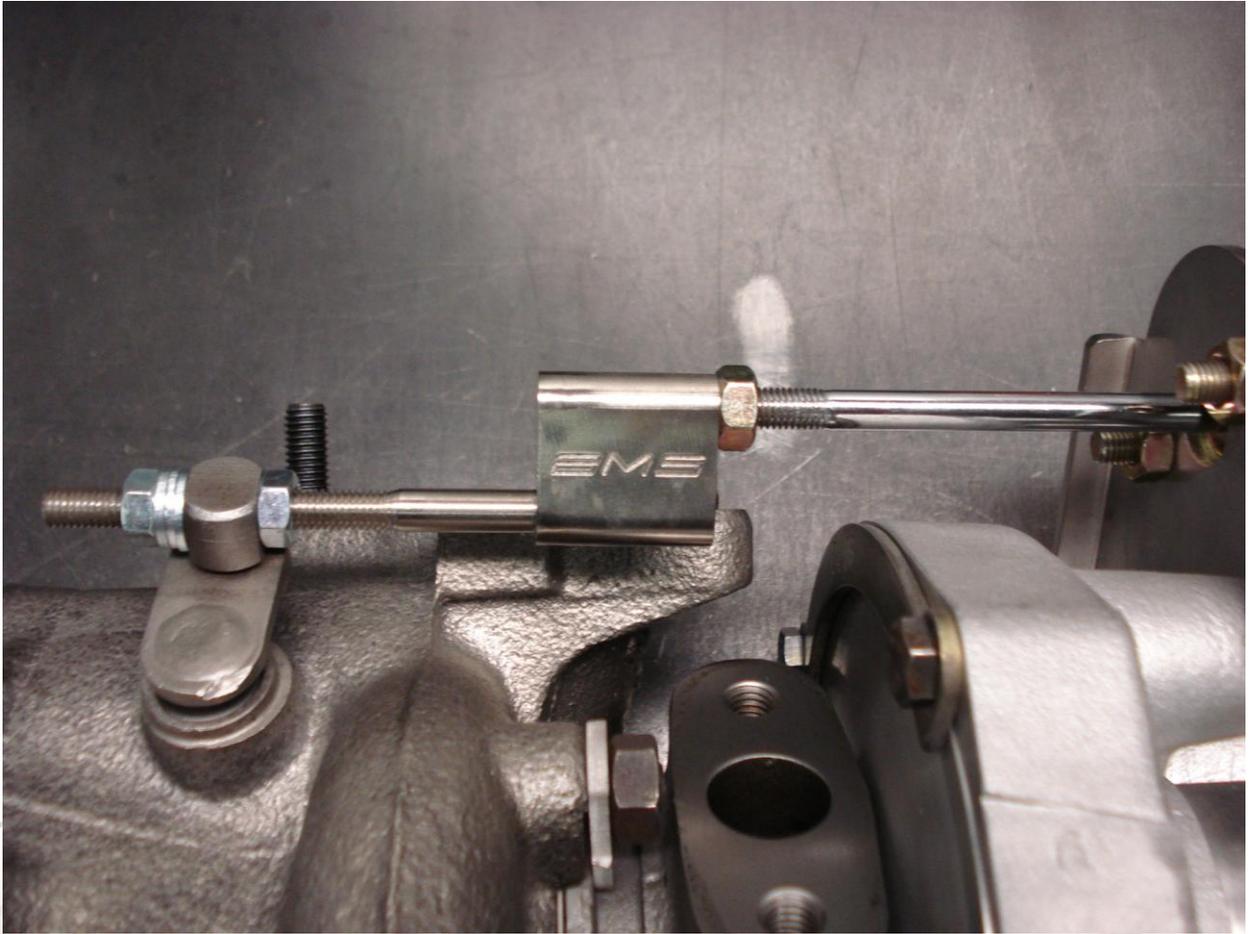
As an extra step to ensure there is no binding in the assembly you can use compressed air to move the WGA. With a regulator set at 0 PSI connect it to the WGA nipple, then slowly and gradually raise the pressure until the WGA arm begins to move (~15 PSI), making sure it's at your desired boost level. Tighten the jam nut on the other side of the arm, making sure the preload doesn't change.



- 7) If everything is in alignment, there is no binding, and the WGA opens at your specified boost level then you can tighten the jam nuts on either end of the rods.



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- 8) Use the supplied plastic vacuum fittings to adapt the stock Porsche WGA lines to the included silicone lines. You can leave the lines at their current length and loop them or trim to fit if so desired.
- 9) Repeat all the above steps for the passenger's side WGA. **NOTE:** The pictures above are for reference purposes only and your actual install may look slightly different once the components are in their final positions.