



Oregon Fuel Injection Inc

Cummins 6.7L Turbocharger Actuator Installation Warning

**** Coolant must be drained prior to replacing the actuator ****

**** Any coolant entering the actuator gear drive area will result in voiding the warranty ****

1. **Drain the cooling system.**
2. Follow your service information for access and removal instructions.
3. Verify the sector gear on the turbo moves the sliding sleeve freely in both directions.
4. Clean all surfaces and install the new seal on the turbocharger actuator.
5. Rotate the sector gear to the correct position and install the sector gear travel gauge, supplied with the actuator.
6. Position the actuator in the engine compartment, connect the wire harness and make sure the actuator gear is free to move.
7. Turn the ignition on, DO NOT START THE ENGINE. Using the scan tool clear any DTC codes. Perform the VGT actuator Pre-Alignment/Self Calibrate, which is a two-step process on Ram applications.
8. When the calibration is done, DO NOT TURN OFF THE IGNITION. Remove the sector gear travel gauge and follow the steps to install the actuator.
9. Install the two guide pins in the top two mounting holes.
10. Install the bottom two new screws in the actuator and finger tighten.
11. Remove the top two guide pins and install new bolts finger tight.
12. Follow the service information for proper torque specifications.
13. After the actuator is installed, using the scan tool, perform the self-calibration portion of the VGT Turbocharger Actuator routine.
14. The actuator may take multiple attempts to calibrate/learn with the turbocharger. Clear any DTC codes that are set after the procedure is complete.
15. Note: If the calibration fails, remove the actuator, and repeat the installation and calibration procedure.
16. Refill the cooling system, and bleed as required.

Refer to your service information for complete installation instructions

4036 West 1st Ave.
Eugene, OR 97402
(541) 485-1434
5/12/2023



<https://oregonfuelinjection.com>