

Dodge / Ram Turbo Actuator Removal/Install

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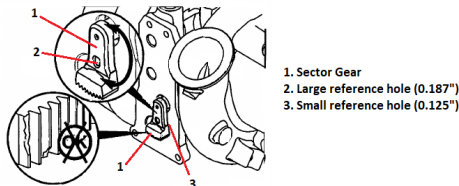


For Bostech TBC0367815 Turbo Actuator

- 1- Drain engine cooling system to ensure actuator cooling chamber is fully drained. (Removal of actuator prior to draining coolant can lead to damage to the core that MUST be returned in good condition for core credit).
- 2- Make sure engine is not running and the key is in the off position. Disconnect the Actuator harness and turbocharger speed sensor.
- 3- Loosen and remove the four (4) m6 x 1 (5mm Allen Key) socket head screws and pull the actuator off the turbocharger.
- 4- Check to make sure sector gear (positioning arm) rotates freely from the left to right and there is no binding or sticking. If so, this may be a mechanical failure.
- 5- Rotate the sector gear (positioning arm) fully clockwise to align with the smaller reference hole (0.125") in the bearing housing that is closest to the firewall of the vehicle. Place a 0.125" dowel pin or 1/8" drill bit through the sector gear alignment hole into the small reference hole in the bearing housing. Remove the pin or drill bit and be sure to NOT MOVE the sector gear once aligned.
- 6- Place the NEW actuator in the engine compartment without obstructing the actuator gear.
- 7- Connect the electrical connections, actuator and turbocharger speed sensor.
- 8- Turn the key on, but DO NOT START ENGINE.
- 9- Using a proper scan tool (Snap-On or Matco) proceed to find "System Tests". Please select the function for "VGT Turbo Actuator Pre-Align/Self Calibrate" option. Follow the instructions on the scan tool.
- 10- Once the actuator is pre-aligned, the scan tool will prompt you to install the actuator to the turbocharger. Make sure the sector gear is still aligned with the smaller reference hole closest to the firewall. Use the four (4) m6 x 1 socket head screws to secure the actuator to turbocharger. Torque the screws to 97 lbf.in (inch pounds) in the diagonal pattern.
- 11- Using the scan tool, continue to follow the instructions and perform the calibration of the actuator to the turbocharger.
- 12- Once calibration has been performed successfully, turn the key off.
- 13- Last refill the cooling system with NEW coolant.

Troubleshooting: Actuator will not calibrate

- Has vehicle been "tuned" or system modifications - Vehicle needs to be in "stock" settings for the turbocharger actuator to calibrate. Once the actuator has been calibrated the vehicle can be set back to customer's Tuned settings



BOSTECH

300 W. Broad Street, Hemingway, SC 29554
Phone: | Toll Free: 800-868-0057 | Fax: 843-558-5111

www.bostechauto.com

