

Gigs Performance Throttle Body Installation

TK/JG/SC – 5/12/2020



Warning

Use caution if closing throttle blade by hand. It has been precisely fitted to the throttle body bore and should not be forced closed under any circumstances.

Tools Required

- 10mm socket
- 10mm swivel socket
- T30 Torx bit
- Trim tool
- Pliers
- Pocket screwdriver (optional)

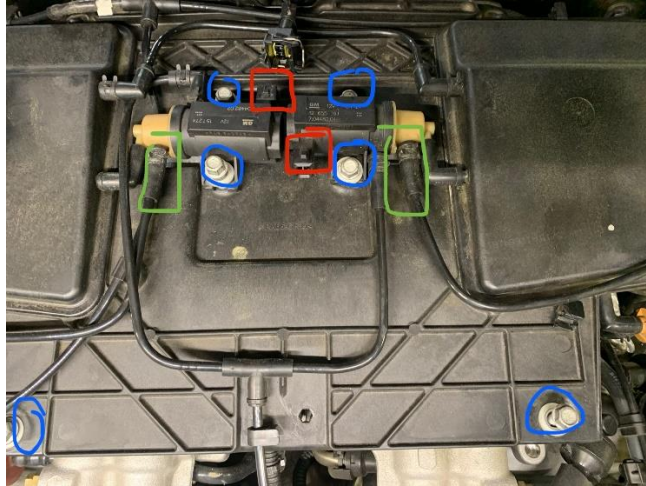
Disassembly

1. Check to see if there are any Current or Pending trouble codes displayed. If so, they must be cleared at this time. Old or Permanent trouble codes are of no concern.
2. Disconnect negative battery terminal.
3. Remove engine cover.



Picture 1

4. Remove four electrical connectors on vacuum assembly, including one for each vacuum solenoid, shown in red in Picture 1.
5. Remove vacuum line to intake. This is a quick-connect fitting, shown in yellow in Picture 1.
6. Remove vacuum lines to both blowoff valves. These are quick-connect fittings shown in green in Picture 1.
7. Remove vacuum lines to both wastegate solenoids in middle of vacuum assembly. Squeeze hose clamp and gently pry vacuum line off solenoid, shown as the green lines in Picture 1.
8. Remove all four vacuum line holders from vacuum assembly and intercooler, shown in orange in Picture 1.



Picture 2

9. Remove six 10 mm. bolts from vacuum assembly, shown in blue in Picture 2.



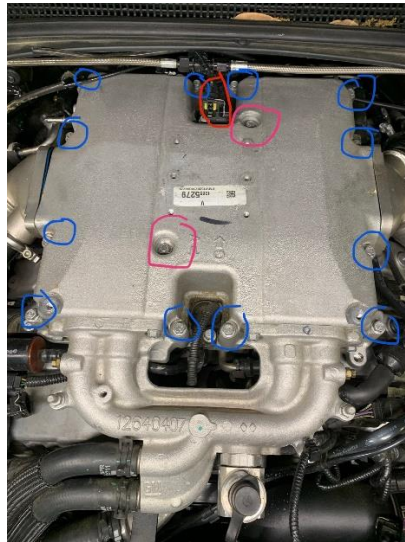
Picture 3

10. Gently pull up on vacuum assembly. On passenger side of vehicle, disconnect two quick connect vacuum lines, shown in green on Picture 3.
11. Remove vacuum assembly.



Picture 4

12. Remove two 10 mm. bolts for charge pipes, shown in blue in Picture 4. Leave the charge pipes on the engine.



Picture 5

13. Remove electrical connector from rear of intercooler, shown in red in Picture 5.
14. Remove 14 10 mm. bolts, taking note of the fact that the two middle ones are longer. Longer bolts are shown in magenta Picture 5, while other bolts are in blue.
15. Disconnect metal pipe from intercooler on passenger side.
16. Disconnect plastic plug from rear of intercooler.
17. Flip intercooler upside down and lay on a towel over radiator support and front bumper area.



Picture 6

18. Remove electrical connector from throttle body, shown in red in Picture 6.
19. Remove four 10 mm. bolts from throttle body, shown in blue in Picture 6.
20. Remove throttle body and gasket.
21. Clean and reuse throttle body gasket.

Reassembly

1. Reinstall cleaned throttle body gasket.
2. Install new throttle body.
3. Reassemble in reverse order.
4. Reconnect negative battery cable.

Calibration and Notes

1. Turn ignition on, but do not start engine.
2. Slowly depress the accelerator pedal to the floor, then slowly release it. Do this three times, then turn ignition off.

3. Start the engine and drive. You will notice an immediate performance increase. However, your new ported and polished throttle body will perform even better after the computer has “learned” to adjust for the increase in air flow. This may take up to 100 miles.
4. After replacement of the throttle body idle speed may be different or vary. This can occur whether a modified or stock throttle body has been installed. If this occurs a factory relearn procedure will be necessary. Refer to the applicable technical service manual and follow the throttle body re-learn procedure for your vehicle.