



## WHIPPLE SUPERCHARGERS BILLET THROTTLE BODY ADJUSTMENT FORD S550/F150 5.0L 2015-2017

Due to factory variances on the electronic throttle cover, some adjustment may be required.

With a scan tool connected to vehicle, ignition on, engine not running, the TPS voltages should be:

- TPS 1 (TP1) should be between 4.10v - 4.20v
- TPS 2 (TP2) should be between 0.75v - 0.85v

If either of these readings are outside these windows, it may cause high idle issues and or throttle stock DTC codes. Common codes are P2111 (throttle stuck open) or P2112 (throttle stuck closed). NOTE: TP2 is the most important reading.

If the readings from TP1 and TP2 show correct but problem persist, remove the air tube for access to the throttle body blade. With the engine on, engine not running, push the throttle blade to its full closed position with your hand or end of a screw driver handle, check the TP2 reading. TP2 needs to be between 0.40v - 0.45v for perfect operation. The absolute maximum on TP2 is 0.35v, any lower and it will set a code when in operation. If your voltage is out of range, follow the following instructions to adjust the voltage.

1. Remove the factory plastic gear to the throttle body by lifting up and away.

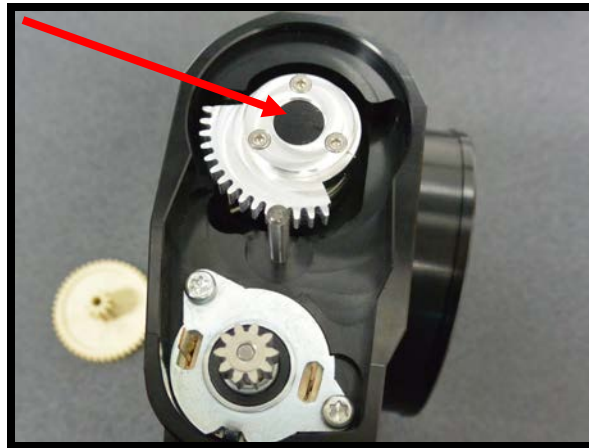


2. Remove the (6) throttle body cover tabs by releasing using a small pick or screw driver.





3. Remove the factory cover for access to the magnet and the (3) socket head allen bolts securing it.

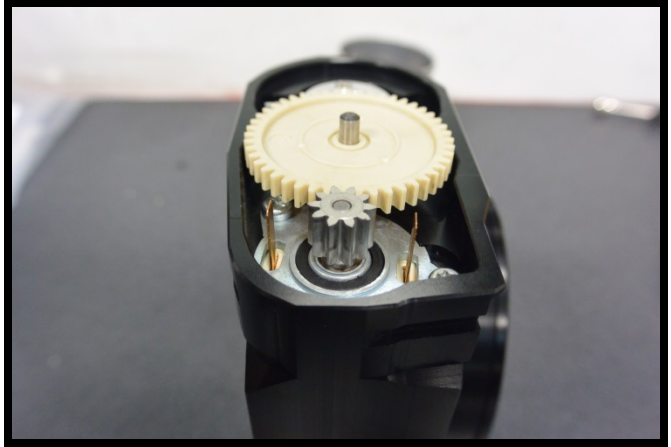
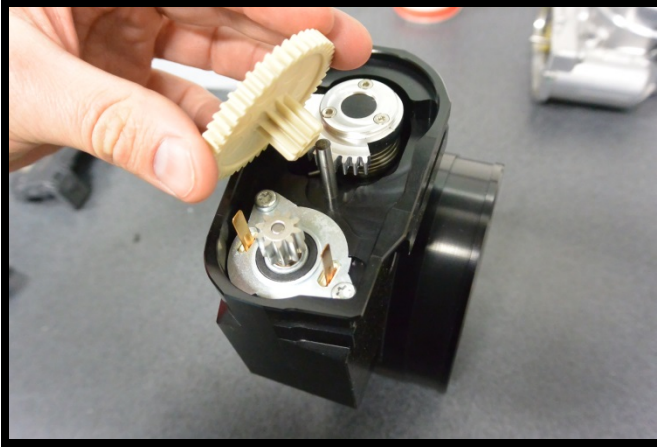


4. Its always good to make a mark using a white out or grease pencil on the magnet and billet gear for reference before adjustment. Using a 2.5mm allen socket, carefully loosen the (3) bolts, do not remove. Carefully move the black magnet clockwise to increase voltage, counter clockwise to lower (extremely small adjustments). Lightly tighten the bolts after movement, install the cover without tabs, push the blade to max closed position for accurate reading and recheck TPS2 (most improtant reading). Repeat until the unit is in the (.40v - .045v) range at max closed position.





5. Reinstall the cream colored factory gear to the throttle body by lowering onto the pressed in shaft. Move until it falls into place.



6. Reinstall the factory cover, make sure the oring stays in place during assembly and the (2) electrical connections are made.



7. Reuse the (6) throttle body cover tabs by pressing on until they click and lock in place.

