



Tech Tips

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Date: 2006

2006-2014 Passat, 2009-2014 CC, 2005-2014 Jetta, Golf, GTI,
2007-2014 EOS, 2009-2014 Tiguan, 2012-2014 Beetle - Active
Wheel Speed Sensor Diagnosis

October 10, 2014: UPDATED to include additional model year information.

Use the following procedure to diagnose active wheel speed sensor complaints:

1. Disconnect the suspect wheel speed sensor harness end connector.
2. Switch ON the ignition.
3. Connect a multimeter (voltage setting) to both of the pins (one at a time) on the vehicle side of the harness to determine which pin has voltage present.

 **Note:**

If voltage is not present from the ABS module, the circuit is open.

4. Use a jumper wire to connect this terminal to the corresponding terminal of the speed sensor.
5. Connect multimeter (milliamps setting) in series with the Ground side of the sensor.
6. Slowly rotate the wheel.
7. Amperage readings should ALTERNATE from ~7mA to ~14mA as wheel rotates.
8. If the amperage readings DO NOT change, the sensor or the bearing inside of the hub is faulty.
9. The digital storage oscilloscope (DSO) function of the VAS 5051b tool can also be used; a properly operating sensor will produce a square wave pattern.