

FixItSmartly - Engine Inspection Guide

Wheel Speed Sensor Testing Guide

Branded by FixItSmartly

A faulty wheel speed sensor can trigger ABS or traction control warnings and affect vehicle safety systems.

Heres how to test it safely and accurately.

WHAT IS A WHEEL SPEED SENSOR?

- A sensor that monitors the rotational speed of each wheel.
- Sends data to the ABS and traction control systems.
- Helps with stability, braking, and traction performance.

SIGNS OF A BAD SENSOR

- ABS or traction control warning light on
- Pulsating brake pedal
- Inconsistent speedometer readings
- Loss of traction control or anti-lock brake function

TOOLS NEEDED

- Digital multimeter
- Jack and jack stands
- Safety gloves and goggles
- Vehicle repair manual (for specs)

STEP-BY-STEP: HOW TO TEST A WHEEL SPEED SENSOR

FixItSmartly - Engine Inspection Guide

1. SAFELY LIFT THE VEHICLE

- Use a jack and jack stands to raise the car.
- Secure it before crawling underneath.

2. LOCATE THE SENSOR

- Find the sensor near the wheel hub or axle.
- Look for a wire leading from the hub to the vehicles frame.

3. DISCONNECT THE SENSOR

- Unplug the sensor connector.
- Inspect for corrosion, damage, or loose pins.

4. SET UP YOUR MULTIMETER

- Set the multimeter to AC voltage or resistance (ohms) based on your vehicle type.

5. TEST RESISTANCE (PASSIVE SENSOR)

- Connect the multimeter leads to the sensor terminals.
- Compare the reading to your vehicles specs (usually 1,000-2,500 ohms).

6. TEST VOLTAGE OUTPUT (ACTIVE SENSOR)

- Spin the wheel by hand.
- A working sensor should generate a small AC voltage (e.g., 0.5V-1.5V) while the wheel turns.

7. CHECK SENSOR WIRING

FixItSmartly - Engine Inspection Guide

- If the sensor checks out, test the wiring from the sensor plug to the ABS module.
- Look for broken wires or shorts using continuity mode.

8. REASSEMBLE & RETEST

- Reconnect everything.
- Clear ABS codes if needed and test drive to verify the fix.

Pro Tip: Always check all four sensors when diagnosing ABS issuesmultiple sensors may be faulty.

Stay smart. Stay safe. Fix it rightFixItSmartly.