INFINITI® SERVICE BULLETIN

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INFINITI; ABS/VDC WHEEL SPEED SENSOR DIAGNOSIS

APPLIED VEHICLES: 2007-2011 Infiniti vehicles equipped with ABS/VDC

SERVICE INFORMATION

This bulletin is being released to assist in accurate diagnosis when DTC:

- C1101~C1104 [Wheel Speed Sensor 1],
  And/or
- C1105~C1108 [Wheel Speed Sensor 2],
  is stored in the related ECU.

  See the next page for additional diagnostic information.

  Use of CONSULT-III and/or Wheel Sensor Tester Essential Tool J-45741 is recommended for more efficient diagnosis.

IMPORTANT:

- ALWAYS fully diagnose the code before performing any repairs.
- DO NOT replace a sensor based on DTC alone without confirming a specific issue.

To diagnose a potential wheel speed sensor incident, these basic steps should be followed.

1. Check the codes from the control unit and determine whether there is a wheel speed sensor DTC and which wheel it is from. Check the sensor outputs using CONSULT-III DATA MONITOR where applicable.

2. Go to the sensor and rotor at issue. Check for damage, debris contamination, and the electrical connection.

3. With key off, disconnect the sensor and check the connector for any damage, including damaged terminal, terminal “push-out”, female terminal “spread-open”, and any oxidation or dirt.

4. Check the wheel speed sensor output signal directly at the sensor. This is done with Wheel Sensor Tester Essential Tool J-45741. Make sure the key is off before disconnecting any connectors. While checking signal output, move around the wires to see if movement produces an interruption.

   NOTE:
   - Use the Tester. DO NOT test a wheel speed sensor with a “continuity” (test) light.
   - A good result from the Tester will most likely remove any concern of an incident with the wheel speed sensor itself.

5. Check continuity of circuits. Use the applicable Electronic Service Manual to find the wheel speed sensor circuit being inspected at the control unit. Check pin to pin continuity from the control unit connector to the wheel speed sensor connector- wire harness side.

   CAUTION: Do not damage the connectors.

   After checking continuity on each individual circuit pin to pin:
   - Check continuity between the two separate wheel speed sensor circuits to ensure there is no continuity across (between) the two separate circuits.
   - Check each circuit to ensure there is no continuity to ground.

The steps above are general diagnostic guidelines. Always consult the applicable Electronic Service Manual for specific instructions on the diagnosis and repair of DTCs.