Yaw Rate Sensor Communication Stop Mode

DESCRIPTION

<table>
<thead>
<tr>
<th>Detection Item</th>
<th>Symptom</th>
<th>Trouble Area</th>
</tr>
</thead>
</table>
| Yaw Rate Sensor Communication Stop Mode | • "YAW/DECELERATE" not displayed on "BUS CHECK" screen of intelligent tester via CAN VIM  
• Applies to "Yaw Rate Sensor Communication Stop Mode" in "DTC combination table" | • Power source circuit of yaw rate sensor  
• Yaw rate sensor branch wire or connector  
• Yaw rate sensor |

WIRING DIAGRAM

INSPECTION PROCEDURE

NOTICE:
• Turn the ignition switch off before measuring the resistances of the CAN main wire and the CAN branch wire.
• After the ignition switch is turned off, check that the key reminder warning system is not in operation.
Before measuring the resistance, leave the vehicle as is for at least 1 minute and do not operate the ignition switch, any other switches or the doors. If doors need to be opened in order to check connectors, open the doors and leave them open.

HINT:
Operating the ignition switch, any switches or any doors triggers related ECU and sensor communication with the CAN, which causes resistance variation.

1. CHECK CAN BUS LINE FOR DISCONNECTION

(a) Turn the ignition switch OFF.
(b) Disconnect the E34 yaw rate sensor connector.
(c) Measure the resistance.

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Condition</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>E34-3 (CANH) - E34-2 (CANL)</td>
<td>Ignition switch OFF</td>
<td>54 to 69 Ω</td>
</tr>
</tbody>
</table>

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REPAIR OR REPLACE CAN BRANCH WIRE CONNECTED TO YAW RATE SENSOR (CAN-H, CAN-L)

2. CHECK HARNESS AND CONNECTOR

(a) Disconnect the E34 yaw rate sensor connector.
(b) Measure the resistance.

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<tr>
<th>Tester Connection</th>
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</thead>
<tbody>
<tr>
<td>E34-1 (GND) - Body ground</td>
<td>Ignition switch OFF</td>
<td>Below 1 Ω</td>
</tr>
</tbody>
</table>

(c) Measure the voltage.

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<tr>
<th>Tester Connection</th>
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</tr>
</thead>
<tbody>
<tr>
<td>E34-5 (IG) - Body ground</td>
<td>Ignition switch ON</td>
<td>11 to 14 V</td>
</tr>
</tbody>
</table>

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

OK

REPLACE YAW RATE SENSOR