

ECCENTRIC SHAFT POSITION SENSOR INSPECTION

BHE014018221W01

Note

- Before performing the following inspection, make sure to follow the troubleshooting flowchart. (See [Troubleshooting Procedure](#).)

Visual Inspection

1. Remove the eccentric shaft position sensor.
2. Verify that there are no metal shavings on the sensor.
 - If the monitor item condition (reference) is not within the specification even though there is no malfunction, perform the "Circuit Open/Short Inspection".

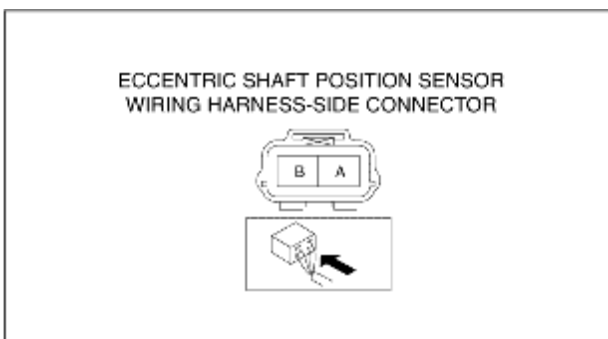
Resistance Inspection

1. Disconnect the eccentric shaft position sensor connector.
2. Measure the coil resistance between eccentric shaft position sensor terminals A and B.
 - If not within the specification, replace the eccentric shaft position sensor.
 - If the monitor item condition/specification (reference) is not within the specification, even though the eccentric shaft position sensor resistance is within the specification, perform the "Circuit Open/Short Inspection" and repair or replace the malfunctioning part.

Eccentric shaft position sensor resistance
950-1,250 ohms (at room temperature)

Circuit Open/Short Inspection

1. Disconnect the PCM connector.
2. Disconnect the eccentric shaft position sensor connector.
3. Inspect the following wiring harnesses for open or short circuit. (Continuity inspection)



Open circuit

- If there is no continuity in the following wiring harnesses, there is an open circuit. Repair or replace the wiring harness.
 - Eccentric shaft position sensor terminal A and PCM terminal 2U

PCM
WIRING HARNESS-SIDE CONNECTOR



CHU0140W072 ground

– Eccentric shaft position sensor terminal B and PCM terminal 2X

Short circuit

• If there is continuity in the following wiring harnesses, there is a short circuit. Repair or replace the wiring harness.

– Eccentric shaft position sensor terminal A and body

ground

– Eccentric shaft position sensor terminal A and power

supply

– Eccentric shaft position sensor terminal B and body ground

– Eccentric shaft position sensor terminal B and power supply