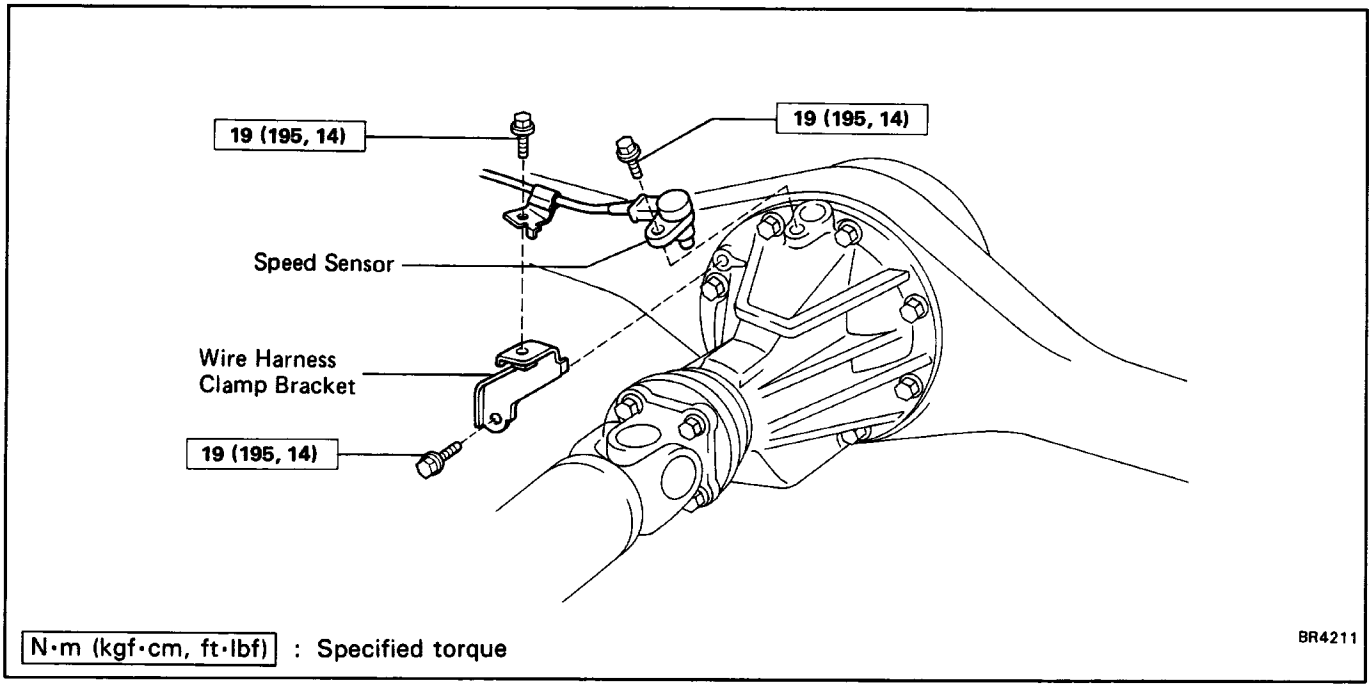
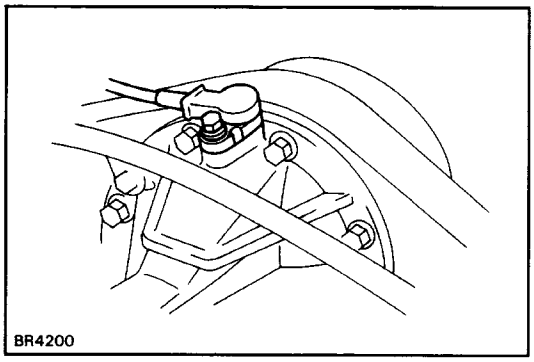
# Speed Sensor



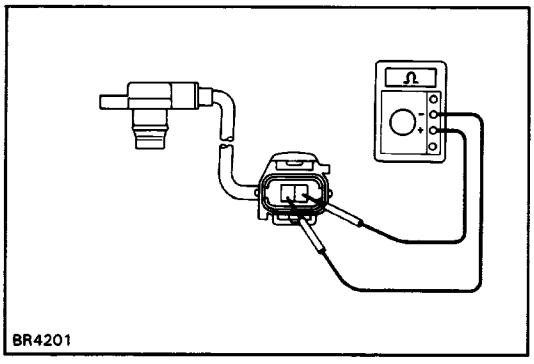

## INSPECTION OF SPEED SENSOR

### 1. INSPECT SENSOR INSTALLATION

Check that the sensor installation bolt is tightened properly.

If not, tighten the bolt.

**Torque: 19 N–m (195 kgf–cm, 14 ft–lbf)**



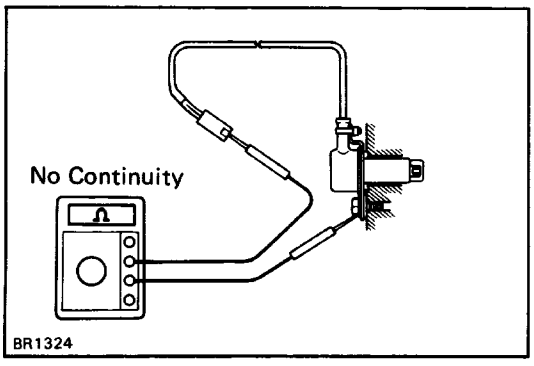

### 2. INSPECT SPEED SENSOR

(a) Disconnect the speed sensor connector.

(b) Measure the resistance between terminals.

**Resistance: 580 – 700Ω**

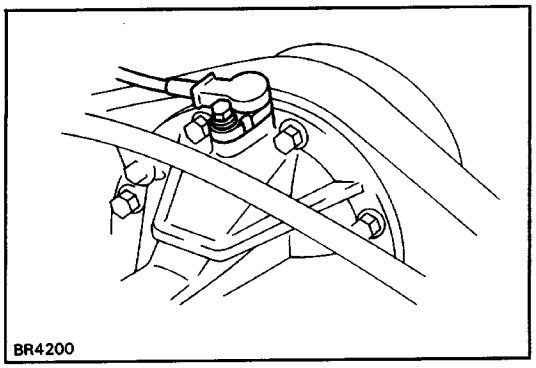
If resistance value is not as specified, replace the sensor.




(c) Check that there is no continuity between each terminal and sensor body.

If there is continuity, replace the sensor.

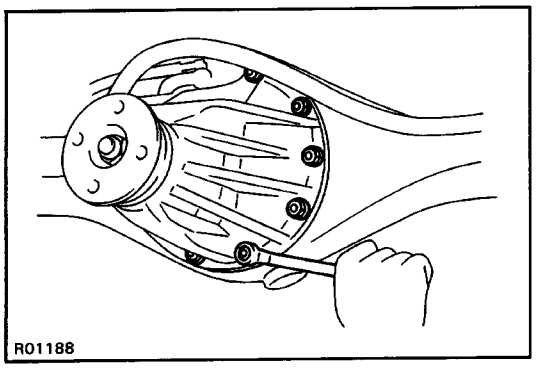
(d) Connect the speed sensor connector.




### 3. VISUALLY INSPECT SENSOR ROTOR SERRATIONS

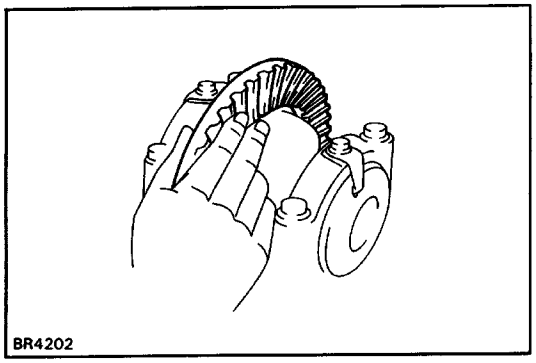
(a) Disconnect the speed sensor wire harness clamp bolt.

(b) Remove the speed sensor installation bolt and pull out the speed sensor.

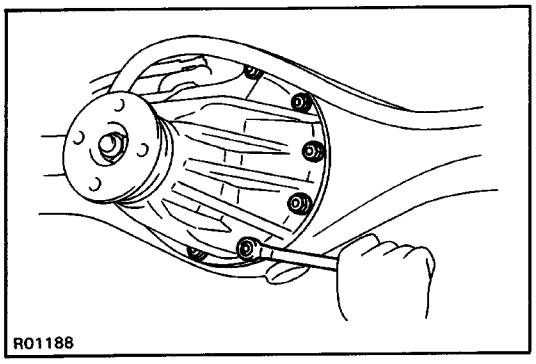



(c) Remove the differential carrier assembly.
(See page SA–136)

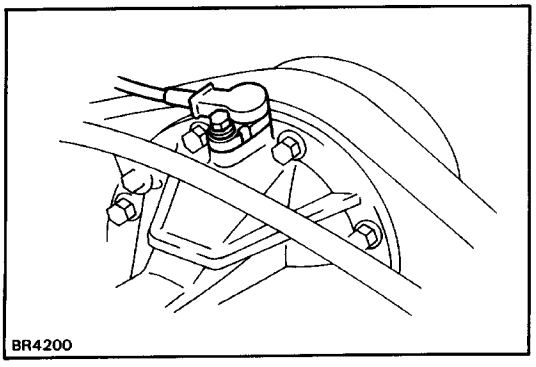
**NOTICE: To prevent damage to the ring gear serrations, do not strike the ring gear.**




(d) Inspect the ring gear (sensor rotor) serrations for scratches, cracks, warping or missing teeth.
If necessary, replace the ring gear.




(e) Install the differential carrier assembly.
(See page SA–151 )

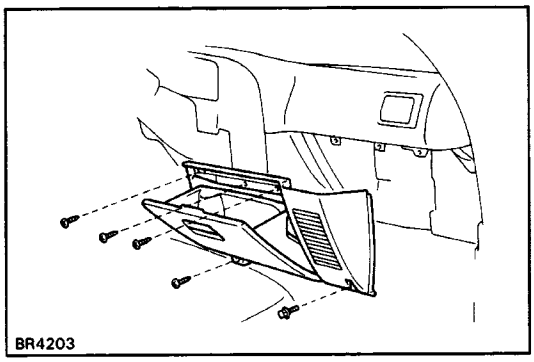



(f) Install the speed sensor and tighten the installation bolt.

**Torque: 19 N–m (195 kgf –cm, 14 ft–lbf)**

(g) Set the speed sensor wire harness clamp in place and tighten the clamp bolt.

**Torque: 19 N–m (195 kgf–cm, 14 ft–lbf)**




# INSPECTION OF SPEED SENSOR AND SENSOR ROTOR SERRATIONS (REFERENCE)

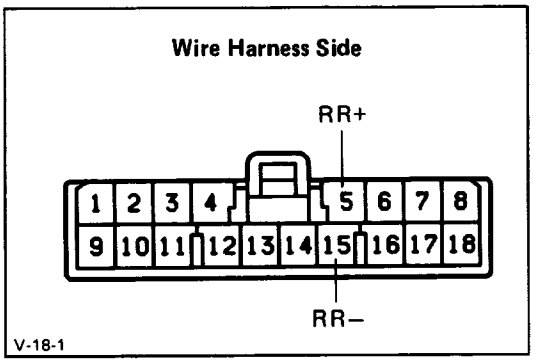
**INSPECT SPEED SENSOR AND SENSOR ROTOR SERRA–TIONS BY USING AN OSCILLOSCOPE**

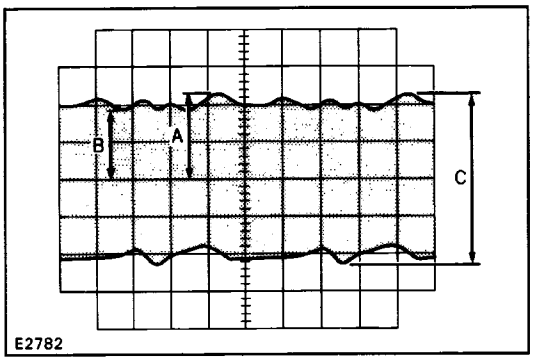
(a) Remove the glove box assembly and disconnect the radio speaker connector.

(b) Disconnect the connector from the rear–wheel anti–lock brake system ECU.

(c) Connect an oscilloscope to the terminals RR + and RR – on the wire harness side connector.

(d) Run the vehicle at 20 km/h 0 2.4 mph), and inspect speed sensor output wave.



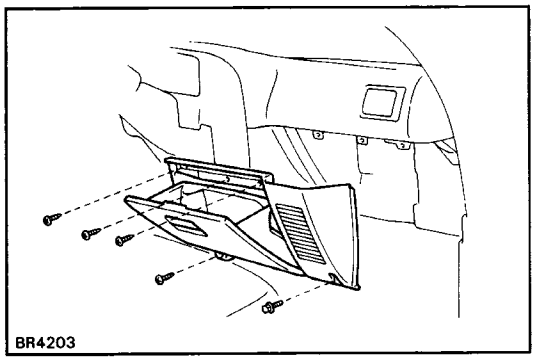

(e) Check that C is 0.4 V or more.

If it is not as specified, replace the speed sensor.

M Check that B is 70% or more of A.

If it is not as specified, replace the sensor rotor.

(g) Remove the oscilloscope and connect the connector to the ECU.




(h) Connect the radio speaker connector and install the glove box assembly.