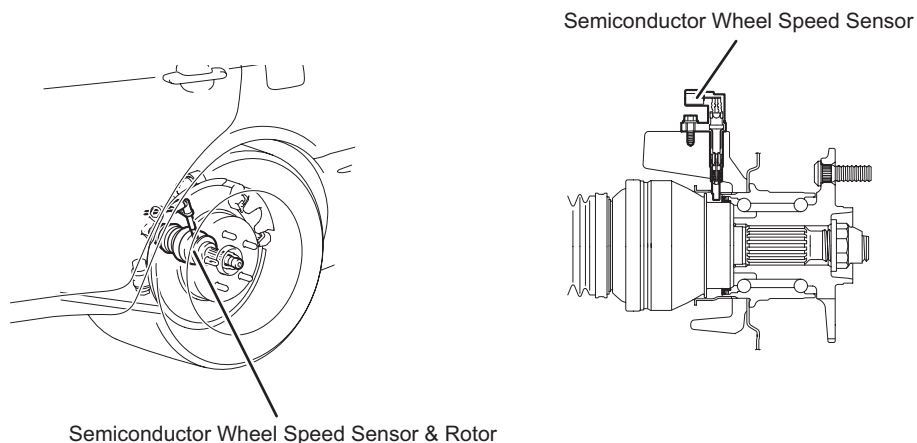


Rear Wheel Speed Sensor

- A semiconductor wheel speed sensor is installed on the rear axle carrier, and a sensor rotor is installed on the inner race.



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Detection Principle

- The magnetic rotor consists of a rubber matrix embedded with magnetic particles, with N/S poles (48 N and S poles each) arranged uniformly in the circumferential direction.
- The rotational movement of the magnetic rotor causes the magnetic field to change. The active sensor detects the changes and outputs them in the form of wheel speed pulses.
- In contrast to the widely used passive sensors, this sensor is able to detect vehicle speeds starting from approximately 0 km/h. In addition, because it can detect the rotational direction of the rotor, it enables the system to differentiate between the forward and reverse movement of the vehicle.