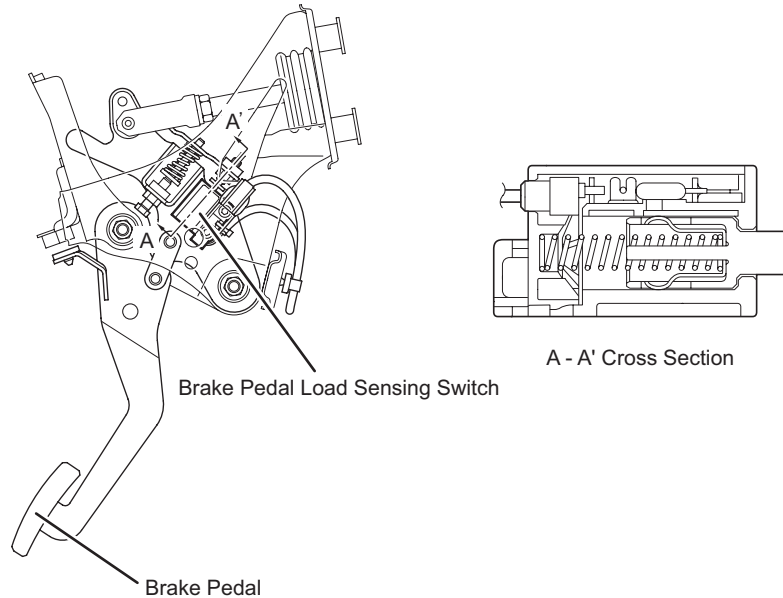


Brake Pedal Load Sensing Switch

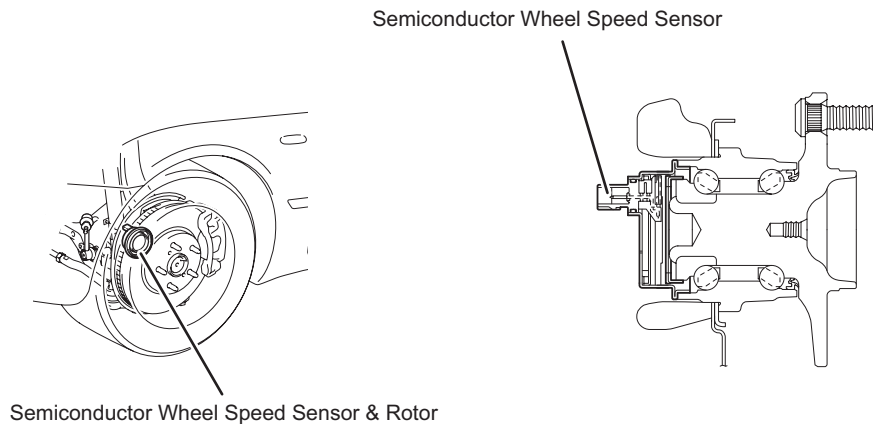
- This switch is mounted on the brake pedal. As the brake pedal pushes on the pushrod of the master cylinder, this movement moves a lever, which turns ON the brake pedal load sensing switch. The brake pedal load sensing switch signal is used as part of the control data for the servo failure auxiliary control.



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Front Wheel Speed Sensor

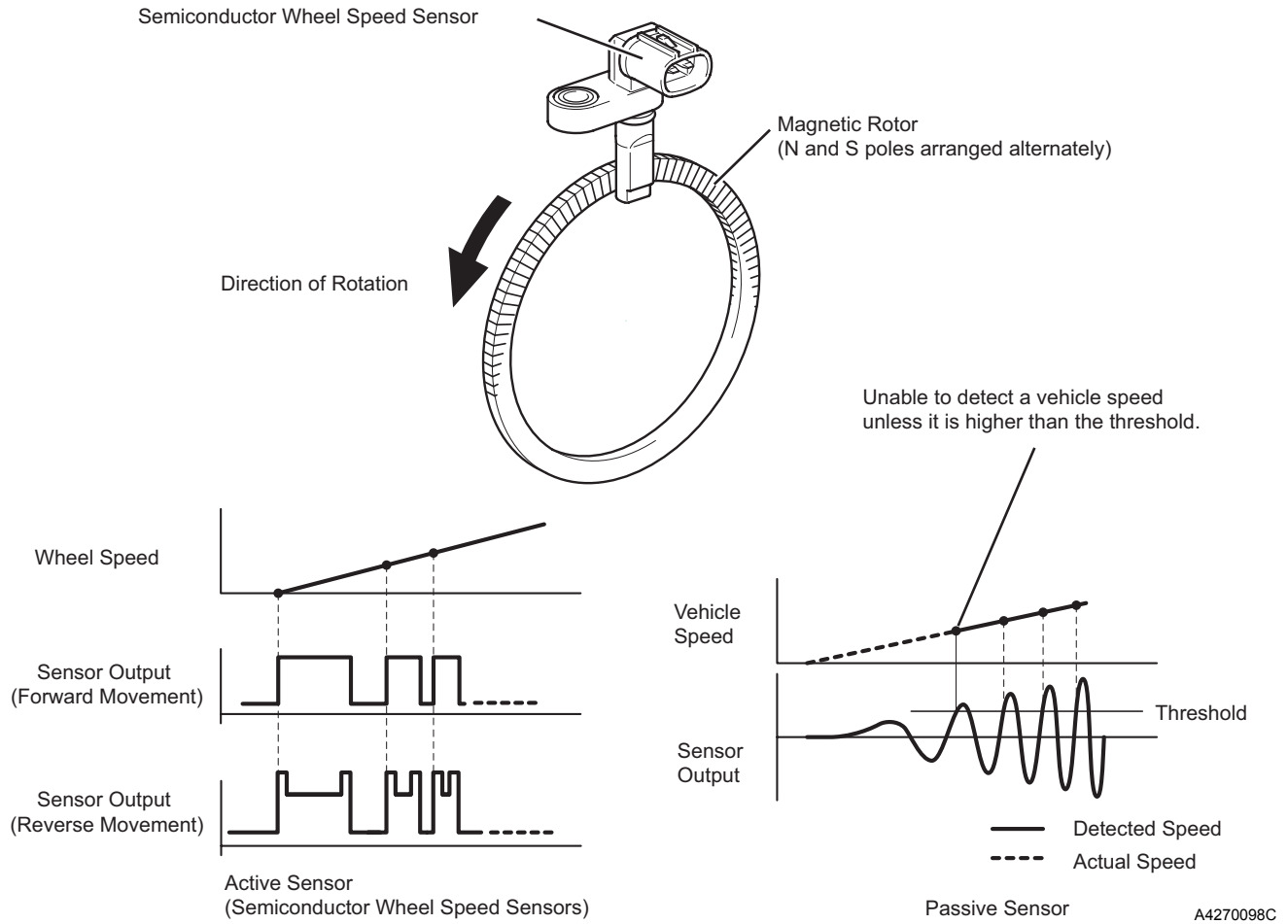
- A semiconductor wheel speed sensor & magnetic rotor, which is integrated in the bearing unit, is installed on the front axle hub. The magnetic rotor is fixed to the inner race of the bearing unit and the sensor is installed on the cap.



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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.



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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.

