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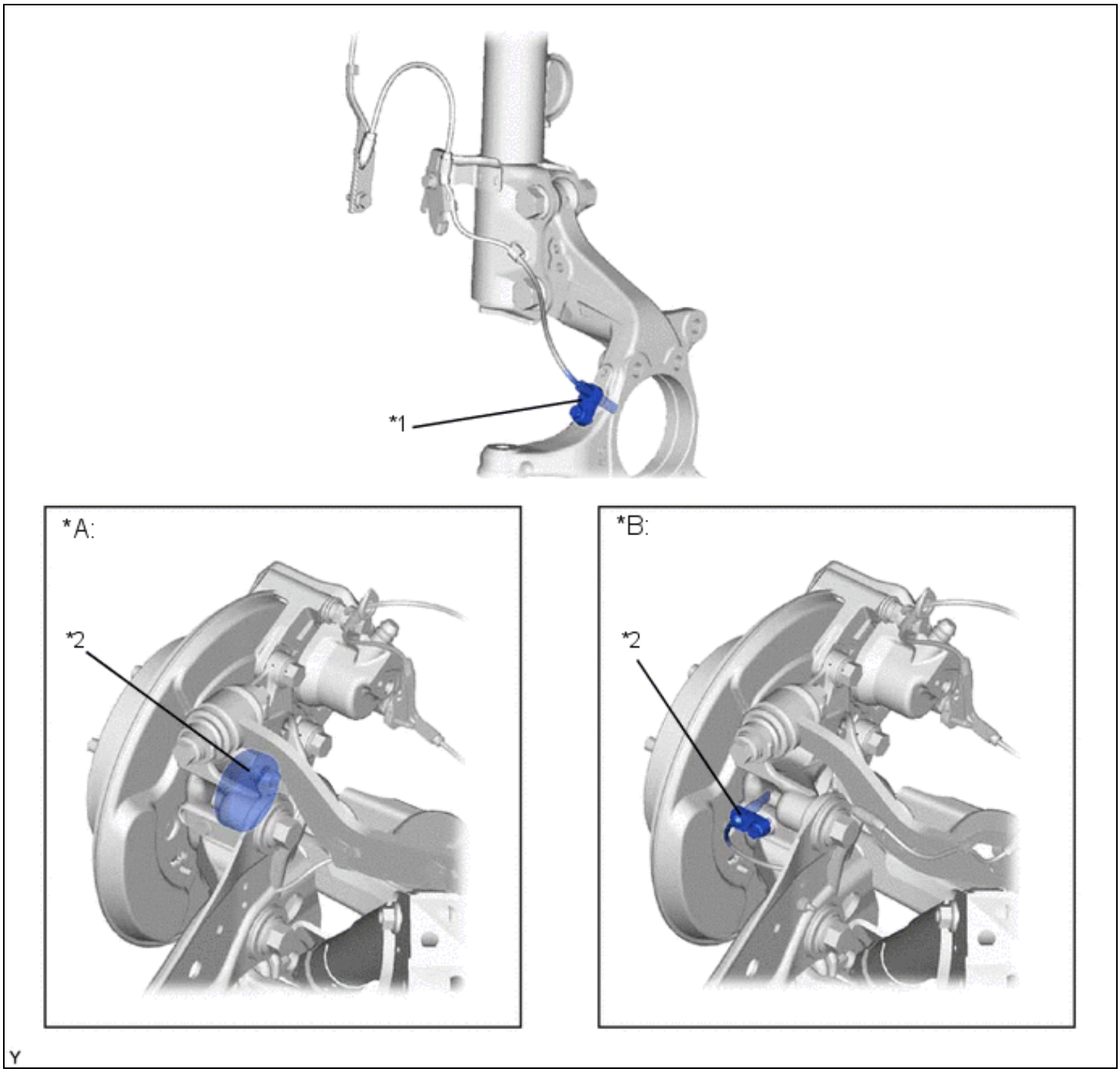
| **Last Modified:** 03-12-2013 | 6.4 F | **Doc ID:** NM1000000005PUI |
| **Model Year:** 2013 | **Model:** RAV4 | **Prod Date Range:** [12/2012 - ] |
| **Title:** BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: BRAKE CONTROL SYSTEM: SPEED SENSOR; 2013 MY RAV4 [12/2012 - ] | | |

# SPEED SENSOR

## 1. CONSTRUCTION

(a) An active type speed sensor is used. This sensor contains a sensor IC.

(b) The magnet type sensor rotor, which consists of N and S poles that are arranged in a circle, is integrated with the hub bearing inner race.

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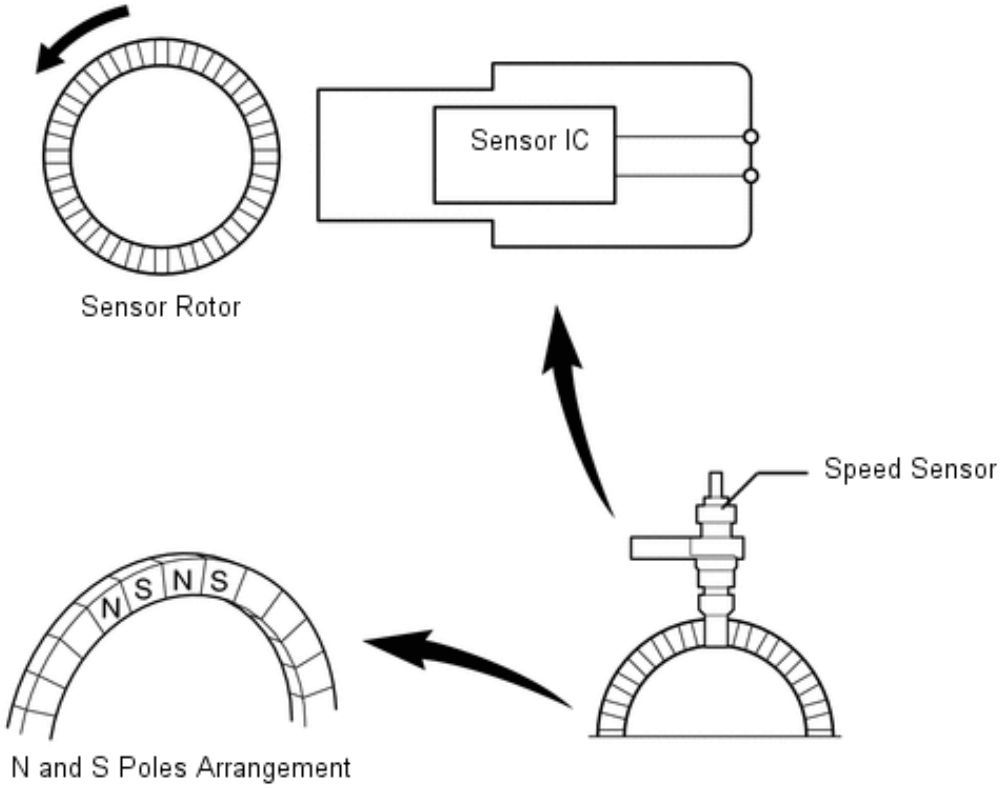
|---|---|---|---|
| *A | 2WD Models | *B | AWD Models |

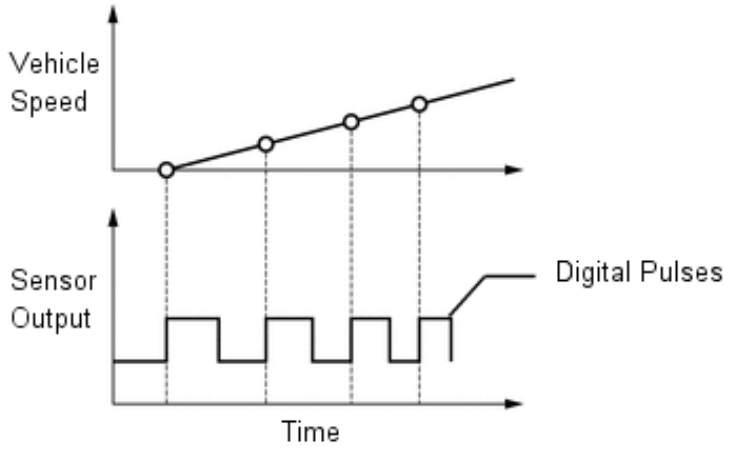
| | | | |
|---|---|---|---|
| *1 | Front Speed Sensor | *2 | Rear Speed Sensor |

## 2. OPERATION

(a) The active type speed sensor uses a sensor IC to detect magnetic field changes caused when the sensor rotor rotates, and the sensor outputs the detected information to the skid control ECU as digital pulses (vehicle speed signal).

(b) To detect the vehicle speed, the frequency of the output pulses is used. Because the active type sensor outputs digital pulses, it can detect vehicle speeds even when the vehicle is nearly stationary.


Sensor IC
Sensor Rotor
Speed Sensor
N
S
N
S
N and S Poles Arrangement


Vehicle
Speed
Sensor
Output
Digital Pulses
Time