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|---|---|---|
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| **Model Year:** 2013 | **Model:** RAV4 | **Prod Date Range:** [12/2012 - ] |
| **Title:** 2AR-FE ENGINE CONTROL: SFI SYSTEM: ACCELERATOR PEDAL SENSOR; 2013 MY RAV4 [12/2012 - ] | | |

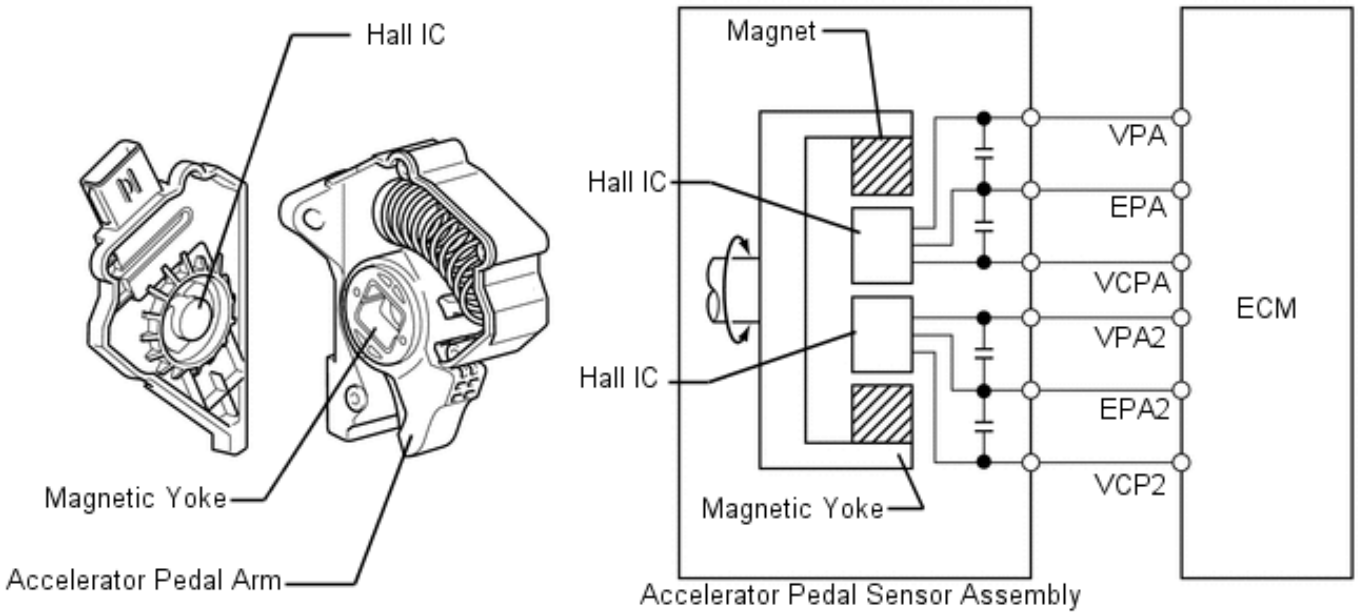
# ACCELERATOR PEDAL SENSOR

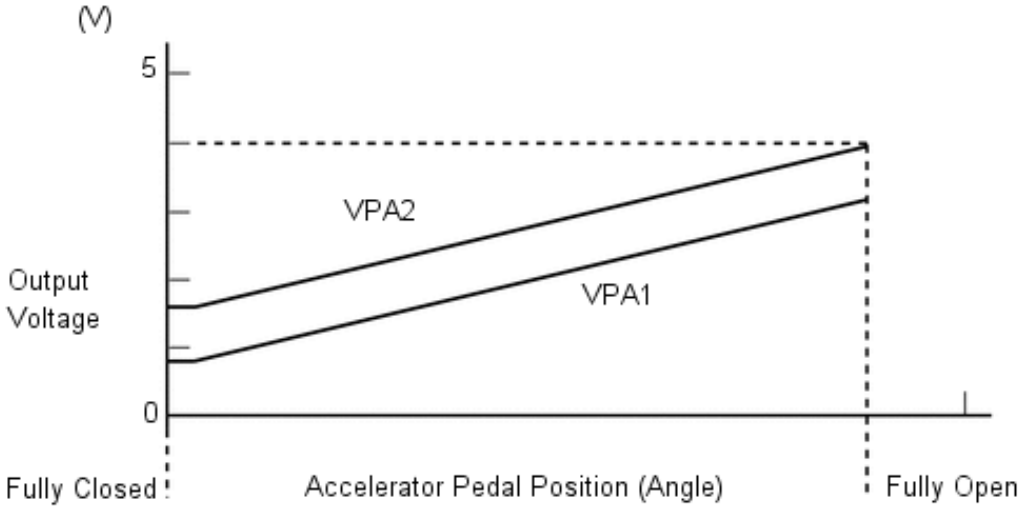
## 1. CONSTRUCTION

(a) The non-contact type accelerator pedal sensor assembly uses a Hall IC.

(b) The magnetic yoke mounted at the accelerator pedal arm rotates around the Hall IC in accordance with the amount of effort applied to the accelerator pedal. The Hall IC converts the changes in the magnetic flux into electrical signals, and outputs them as accelerator pedal effort to the ECM.

(c) The Hall IC contains circuits for the main and sub signals. The Hall IC converts the accelerator pedal depressed angles into electric signals with 2 differing characteristics and outputs them to the ECM.


Hall IC
Magnetic Yoke
Accelerator Pedal Arm
Magnet
Hall IC
Hall IC
Magnetic Yoke
VPA
EPA
VCPA
VPA2
EPA2
VCP2
ECM
Accelerator Pedal Sensor Assembly


(V)
5
0
Output
Voltage
VPA2
VPA1
Fully Closed
Accelerator Pedal Position (Angle)
Fully Open