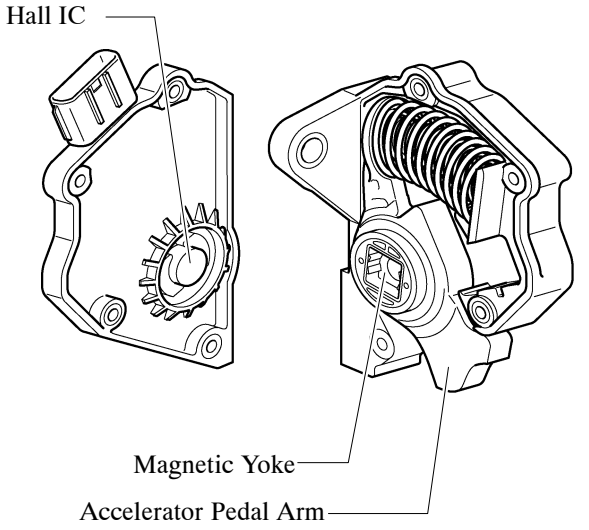
■ACCELERATOR PEDAL POSITION SENSOR

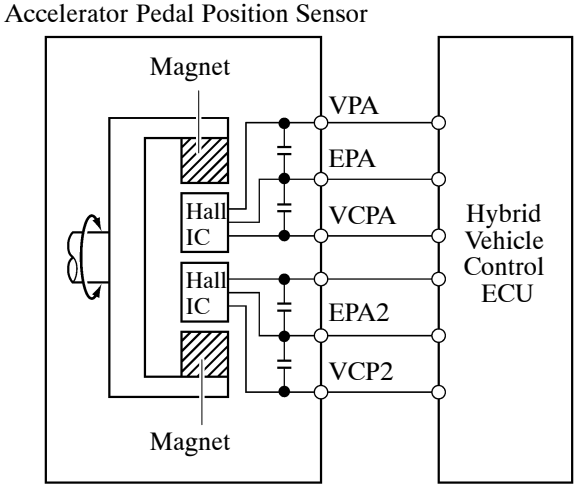
1. General

This non-contact type accelerator pedal position sensor uses a Hall IC which is mounted on the accelerator pedal arm.

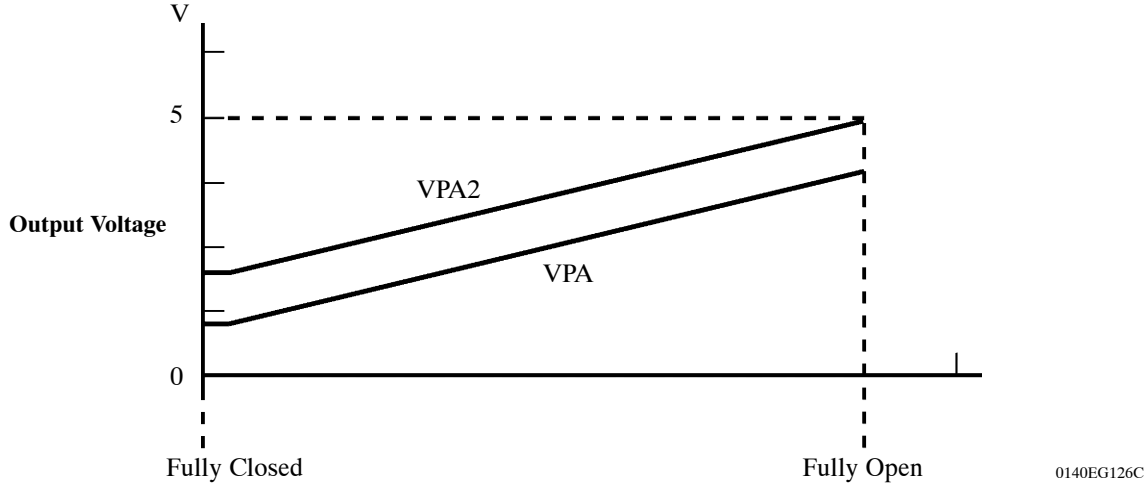
- A magnetic yoke is mounted at the base of the accelerator pedal arm. This yoke rotates around the Hall IC in accordance with the amount of effort that is applied to the accelerator pedal. The Hall IC converts the changes in the magnetic flux that occur into electrical signals, and outputs accelerator pedal position signals to the hybrid vehicle control ECU.
- The Hall IC contains two circuits, one for the main signal, and one for the sub signal. It converts the accelerator pedal position (angle) into electric signals that have differing characteristics and outputs them to the hybrid vehicle control ECU.



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Service Tip

The inspection method differs from a contact type accelerator pedal position sensor because a non-contact type accelerator pedal position sensor uses a Hall IC. For details, refer to the 2008 HIGHLANDER HYBRID VEHICLE Repair Manual (Pub. No. RM07V0U).