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| **Model Year:** 2013 | **Model:** RAV4 | **Prod Date Range:** [12/2012 - ] |
| **Title:** SLIDING ROOF / CONVERTIBLE: SLIDING ROOF SYSTEM: SLIDING ROOF CONTROL; 2013 MY RAV4 [12/2012 - ] | | |

# SLIDING ROOF CONTROL

## 1. FUNCTION

(a) The sliding roof system have the following functions:

| FUNCTION | OUTLINE |
|---|---|
| Manual Open-and-close | Opens or closes the sliding roof while the open switch or close switch is pressed for 0.3 seconds or less. The sliding roof stops as soon as the switch is released. |
| One-touch Auto Open | • Opens the sliding roof up to the fully opened position when the open switch is pressed for 0.3 seconds or more.<br>• Stops opening the roof at the comfort stop position to suppress wind noise. By pressing the open switch once again, the sliding roof can be fully opened. |
| One-touch Auto Close | Fully closes the sliding roof when the close switch is pressed for 0.3 seconds or more. |
| Manual Tilt Up-and-down | Tilts up or down the sliding roof while the up switch or down switch is pressed for 0.3 seconds or less. The sliding roof stops as soon as the switch is released. |
| One-touch Auto Tilt Up-and-down | Fully tilts up or down the sliding roof when the up switch or down switch is pressed for 0.3 seconds or more. |
| Jam Protection | The jam protection function automatically stops the sliding roof and moves it open halfway (or to the fully tilted up position) if a foreign object gets jammed in the sliding roof during close or tilt down operation. |
| Key Off Operation | The key off operation function makes it possible to operate the sliding roof for approximately 43 seconds after the ignition switch is turned ACC or off, if the front doors are not opened. |
| Sliding Roof Open Warning | When the ignition switch is turned from ON to off and the driver door is opened with the sliding roof open, the buzzer in the combination meter assembly sounds once. |

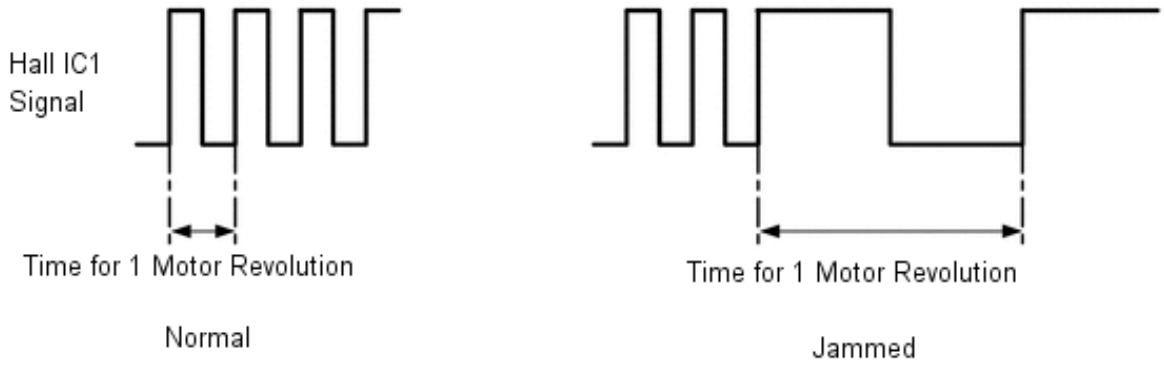
**HINT:**

The sliding roof control ECU memorizes the initial position of the sliding roof. This memory is not cleared if the battery terminals are disconnected. However, initialization is necessary after the sliding roof drive gear sub-assembly is replaced. For details, refer to the Repair Manual.

(b) Jam Protection Function

(1) To control the jam protection function, the sliding roof control ECU monitors the amount of movement and judges jamming of the sliding roof based on the pulse signals from Hall IC1 and the movement direction of the sliding roof from the phase difference between the pulses from Hall IC1 and Hall IC2.

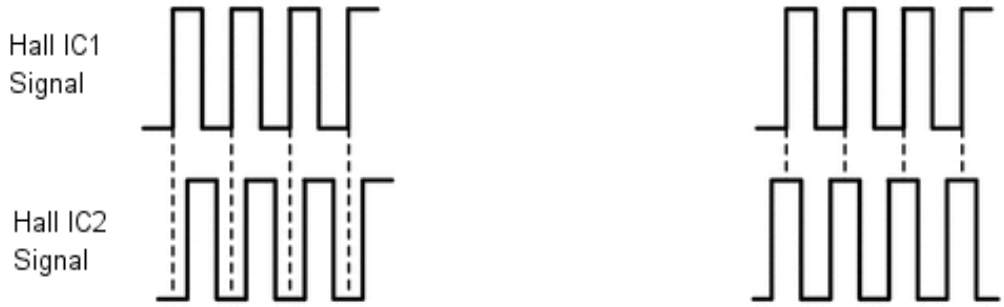
Judgment of Movement and Jamming




Normal

Jammed

Judgment of Movement Direction




Open/Tilt Up

Close/Tilt Down