■ FUNCTION

1. General

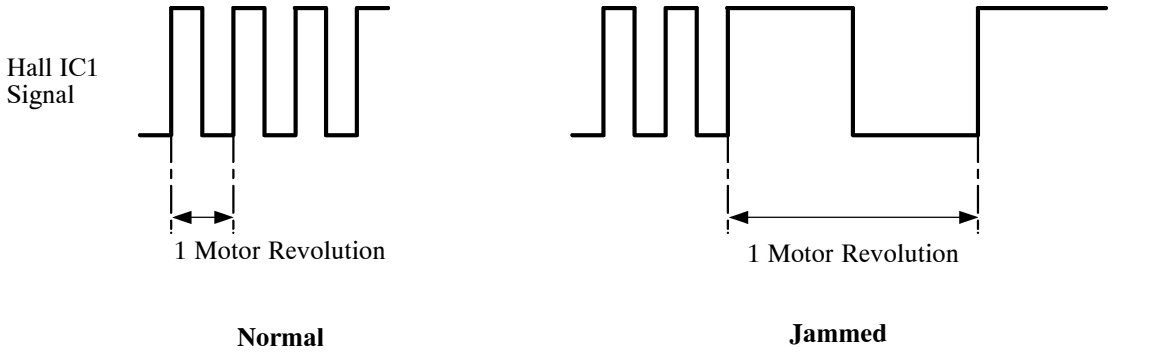
The sliding roof system has following functions:

Function	Outline
Power Open-and-close	This function causes the sliding roof to open or close while the SLIDE switch is being operated. The sliding roof stops as soon as the switch is released.
One-touch Auto Open-and-close	This function enables the sliding roof to be fully opened or closed using a brief touch of the SLIDE switch.
Power Tilt Up-and-down	This function causes the sliding roof to tilt up or tilt down while the TILT switch is being operated. The sliding roof stops as soon as the switch is released.
One-touch auto tilt up-and-down	This function enables the sliding roof to be fully tilted up or down using a brief touch of the TILT switch.
Jam Protection (See page BE-128)	The “jam protection” function automatically stops the sliding roof and moves it open half way (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 power source is turned to the ACC or OFF position, if either front door is not opened.
Sliding Roof Open Warning	When the power source is turned from IG-ON to OFF and the driver’s door is opened with the sliding roof open, the buzzer in the combination meter assembly sounds once.

2. Jam Protection Function

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 the Hall IC1, and the moving direction of the sliding roof from the phase difference between the pulses from Hall IC1 and Hall IC2.

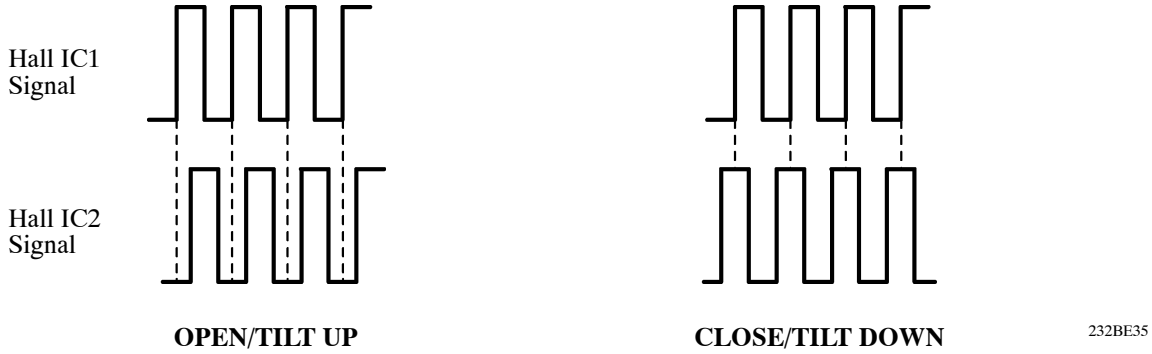
▶ Monitoring Amount of Movement Judgment of Jamming ◀



Normal **Jammed**

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▶ Judgment of Movement Direction ◀



OPEN/TILT UP **CLOSE/TILT DOWN**

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