

■ BACK DOOR POWER WINDOW SYSTEM

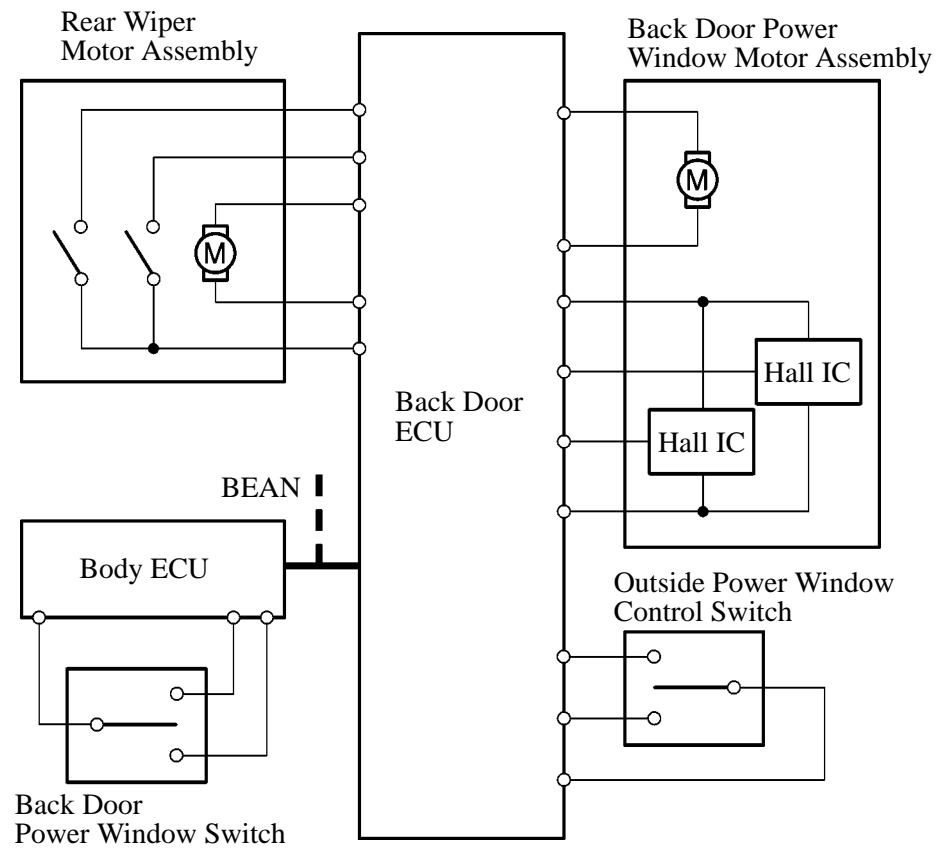
1. General

- As in the '02 4Runner, the back door power window system is used. However, auto up-and-down function and jam protection function have been added.
- If the back door power window switch is operated while the rear wiper is in operation, the wiper will stop automatically and retract, allowing the power window to operate.
- This system is controlled by the back door ECU.
- The back door power window system has the following functions:

: New

Function	Outline
Manual up-and-down function	This function causes the back door window to open or close while the back door power window switch or outside power window control switch is operated. The window stops as soon as the switch is released.
Auto up-and-down function	The auto up-and-down function enables the back door window to be fully opened or closed when the back door power window switch is operated for a minimum of 0.3 seconds.
Jam protection function	A jam protection function automatically stops the power window and moves it downward if a foreign object gets jammed in the back door window during auto-up operation and key-off operation.
	Detects the jamming of the window through the two pulse sensors (Hall IC) that are integrated in the back door power window motor. The basic construction and operation of the jammed window detection mechanism are the same as those of the power window system. For details, refer to page BE-42.
Key-off operation function	The back door window key-off operation function makes it possible to operate the back door power window for approximately 45 seconds after the ignition switch is turned to the ACC or LOCK position, if the both driver's door and passenger's door are not opened.
Diagnosis	If the pulse sensor in the back door power window motor malfunctions, the back door ECU diagnoses the failed section and stores the Diagnosis Trouble Code (B2221) in the body ECU via the BEAN (Body Electronics Area Network). For details, refer to 2003 4Runner Repair Manual (Pub. No. RM1001U).
Fail-Safe	If the pulse sensor in the back door power window motor malfunctions, the auto up-and-down function will be prohibited for the fail-safe.

2. System Diagram



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3. Layout of Main Component

