

POWER WINDOW SYSTEM

■ DESCRIPTION

The power window system has the following functions:

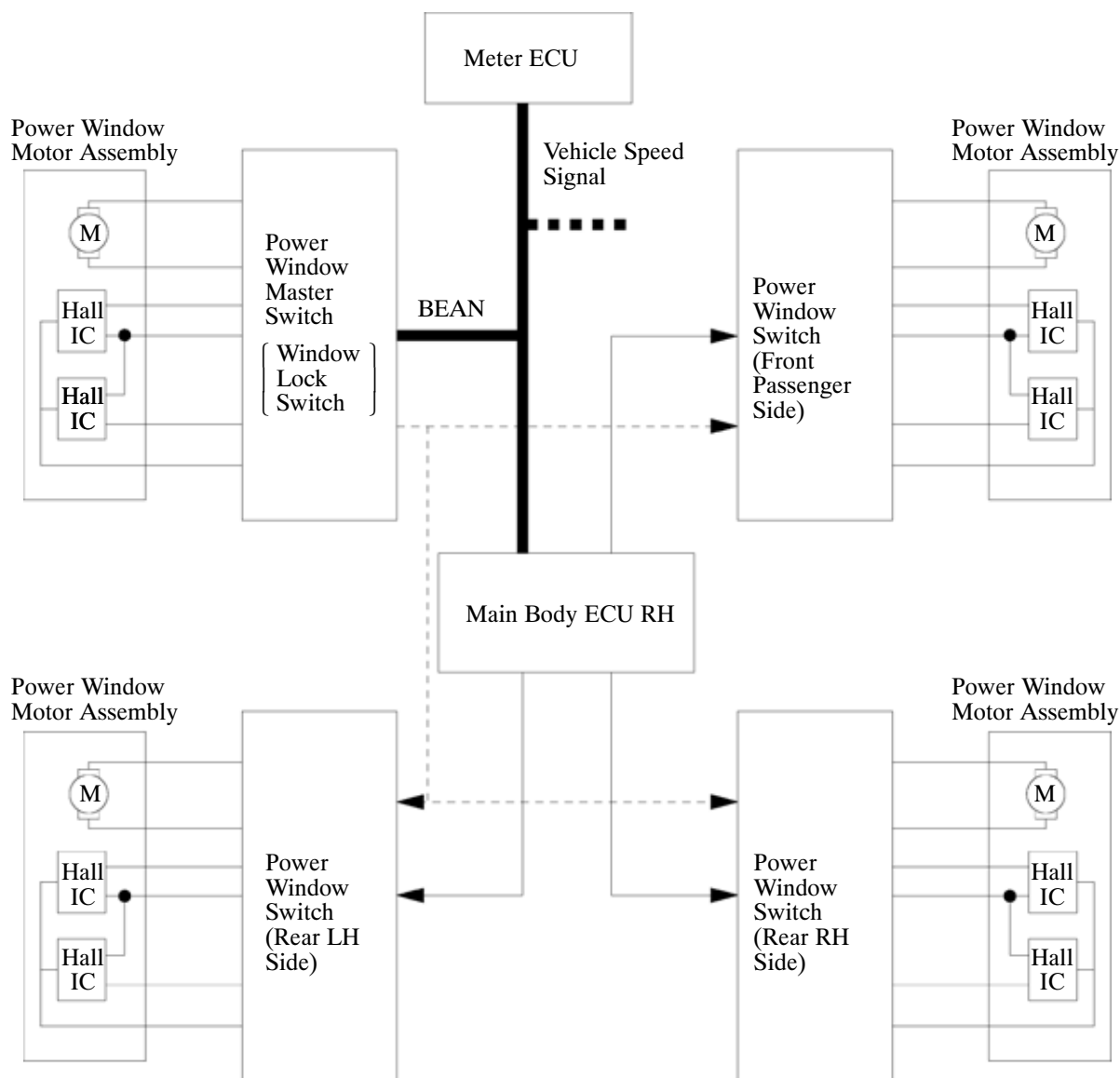
Function	Outline	Customize
Manual up-and-down (All Doors)	This function causes the window to open or close while the power window switch is being pulled halfway up or pushed halfway down. The window stops as soon as the switch is released.	—
One-touch auto up-and-down (All Doors)	The one-touch auto up-and-down function enables the window to be fully opened or closed at a touch of the power window switch.	—
Jam Protection (All Doors)	A jam protection function automatically stops the power window and moves it downward if a foreign object gets jammed in the window during one-touch auto-up operation.	—
Remote Control (All Doors)	The power window master switch can control the up-and-down operations of windows.	—
Window Lock	Power window operation of the 3 passenger windows is disabled when the window lock switch is pressed.	—
Key Off Operation	This function makes it possible to operate the power window for approximately 43 seconds after the power source is changed to OFF, if the driver's door is not opened.	—
Key-linked up-and-down function	When the key is not in the interior detection area, the driver's door is locked, and the key in the driver's door is turned and maintained in the lock direction for 1.5 seconds or more, the Driver Door ECU activates the power window motor to raise all door windows while the key is turned. Similarly, when the driver's door is unlocked, turning and maintaining the driver's door key in the unlock direction for 1.5 seconds or more will cause all door windows to be lowered.	*
Transmitter-linked up-and-down function	When the Main Body ECU RH receives an unlock signal from the transmitter for longer than 2.5 seconds, the power window master switch control their power window motors in accordance with the signal to open the windows.	*
Diagnosis	When the power window master switch detects the following conditions, self-diagnosis switches it to a failsafe mode. The power window switch illumination (LED) flashes to inform the user. - An abnormality in the hall IC that detects the position, speed and direction of the window. - An error in the window detection position and the upper limit position recorded in the power window master switch.	—
Fail-Safe	If the hall IC in the power window motor malfunctions, the some power window functions will be prohibited for the failsafe mode: - All door one-touch auto up-and-down function and the remote control functions are prohibited. - Manual operation is possible by using each power window switch.	—

*: Default setting is ON: The setting can be turned ON/OFF using the customized body electronics system.

Service Tip

The power window master switch and power window switches memorize the initial position of each door window. This data will be lost if a battery terminal, fuse, or switch connector is disconnected, allowing only manual operation. Therefore, after reconnecting the disconnected component, initialize the system by performing the steps described below. These steps must be performed at each door switch, they cannot all be performed from the Master Switch.

- 1) Push down the power window switch and lower the window halfway.
 - 2) Pull up the switch until the window closes and hold the switch for at least one second after the window finishes closing.
 - 3) Make sure that the window opens and closes automatically using the one touch function.
- For details, see the LEXUS IS250 Repair Manual (Pub. No. RM0150E).

► System Diagram ◀

0140BE121C

— : BEAN

- ➔ Power Window Operation Permit Signal
(Transmitted based on the Window Lock Switch Circuit in the Power Window Master Switch)
- ➔ Power Window Operation Control Signal
(Local Protocol Unidirectional Communication)