

POWER WINDOW SYSTEM

■ DESCRIPTION

The power window system has the following functions:

Function	Outline	Customizable
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 regulator master switch assembly 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 windows for approximately 45 seconds after the engine switch is turned off, if either front door is not opened.	—
Key-linked Up-and-Down Function	<ul style="list-style-type: none"> When the driver's door is unlocked, turning and maintaining the driver's door key in the lock direction for 1.5 seconds or more will cause all door windows to be raised. 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 unlock direction for 1.5 seconds or more, the power window regulator master switch assembly activates the power window motor to lower all door windows while the key is turned. 	*
Transmitter-linked Up-and-Down function	When the main body ECU RH (cowl side junction block RH) receives an unlock signal from the transmitter for longer than 2.4 seconds, the power window regulator master switch assembly control their power window motors in accordance with the signal to open/close the windows.	*
Lock Switch-linked Up Function	All the windows are closed when the lock switch on the outside door handle is pressed for 2.4 seconds or more with the key in the detection area and all the doors locked. This function can be performed using the lock switch of any door.	*

*: Default setting is ON: The setting can be turned ON/OFF using the customized body electronics system.
For details, [see page BE-18](#).

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Diagnosis	<p>When the power window regulator master switch assembly detects the following conditions, self-diagnosis switches it to a fail-safe mode. The power window switch illumination (LED) flashes to inform the user.</p> <ul style="list-style-type: none"> • 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 regulator master switch assembly. 	—
Fail-safe	<p>If the hall IC in the power window motor malfunctions, the some power window functions will be prohibited for the fail-safe mode:</p> <ul style="list-style-type: none"> • 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. 	—

Service Tip

The power window regulator master switch assembly 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 power window regulator master switch assembly.

- 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 IS F Repair Manual (Pub. No. RM08E0E).