■ FUNCTION OF MAIN COMPONENTS

1. General

Component		Function
Power Back Door Drive Unit	Power Back Door ECU	● Controls the power back door system in accordance with the signals received from the switches, sensors and ECU. ● Receives signal from the 2 Hall ICs and detects the back door position and the opening and closing speed of the back door.
	Power Back Door Motor	Opens and closes the back door when actuated by the power back door ECU.
	Magnetic Clutch	**[Magnetic Clutch On]** ● Transmits the rotation of the power back door motor to the driven gear to automatically open the back door. **[Magnetic Clutch Off]** ● Not transmits the rotation of the power back door motor to the driven gear to manually open the back door.
Back Door Lock Assembly	Opener & Closer Motor	Locks and unlocks the back door when actuated by the power back door ECU.
	Half Latch Switch	Detects the position of the back door ajar.
	Position Switch	Detects the initial (neutral) position of the driven gear of the opener & closer motor. The switch is on when the back door lock operates to the open side, and off when it operates to the close side.
	Courtesy Switch	Detects whether the back door is opened or closed. This switch turns on when the back door is opened or ajar and off when the back door is closed.
Power Back Door Opener/Closer Switch		The back door opens or closes when the power back door opener/closer switch is turned on from the vehicle interior.
Power Back Door Closer Switch		The power back door closes when the power back door closer switch is turned on from the vehicle exterior.
PWR DOOR OFF Switch		● Setting this switch to off prohibits system operation. ● When this switch is off, the back door cannot be opened or closed manually as the magnetic clutch of the power back door motor is off.
Power Back Door Buzzer and Wireless Door Lock Buzzer		When the power back door system starts to operate, the power back door buzzer and wireless door lock buzzer sound to inform the user that the system is operating. The buzzers also sound if the operating conditions have not been met or if a jam has been detected.
Touch Sensor RH/LH [See page BE-86]		Detects if an object is jammed in the back door.
Main Body ECU		The main body ECU transmits a back door lock/unlock control signal, a vehicle speed signal, and a shift P signal to the power back door ECU via CAN. Also, it receives a hazard request signal from the power back door ECU via CAN, and operates the turn signal flasher relay.
Transmitter		Transmits the power back door button signal to the door control receiver.
Door Control Receiver		Receives the power back door button signal and transmits it to the main body ECU.

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2. Touch Sensor

The touch sensor consists of conductive rubber and a core wire. When the conductive rubber is compressed, its resistance value goes down and electric current flows through the core wire. This information is input to the power back door ECU, which determines the condition of the back door.

