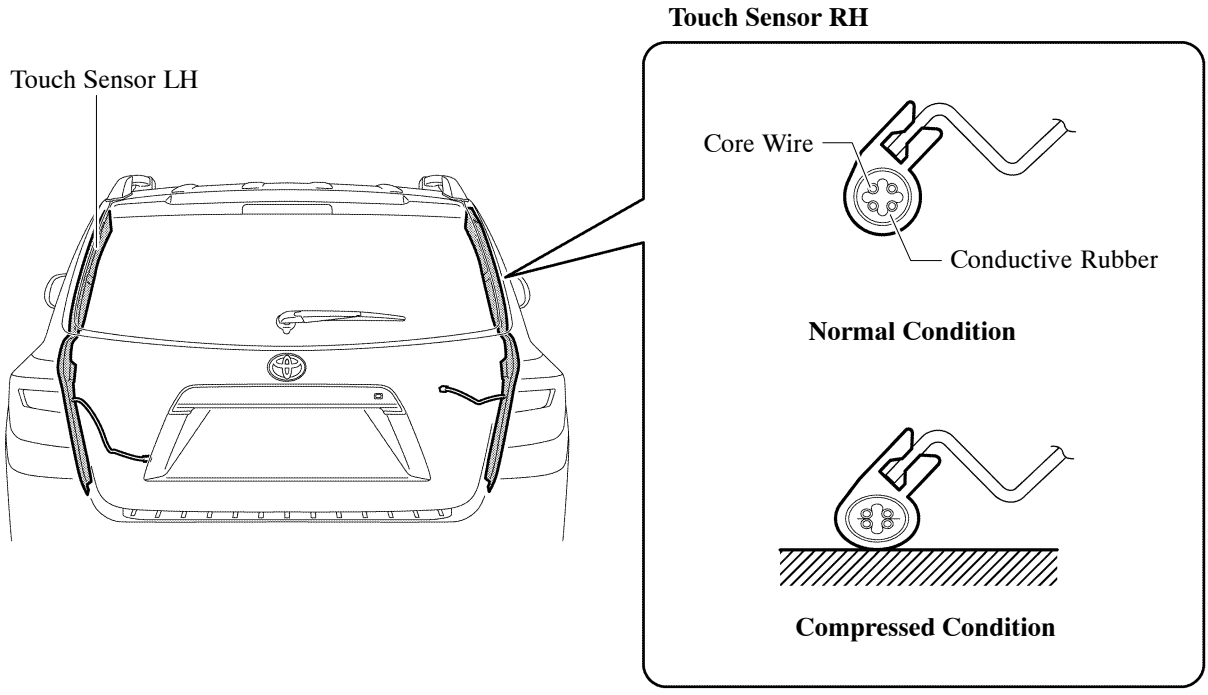
■ FUNCTION OF MAIN COMPONENTS

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 ECUs. • Receives singles from the two 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 open the back door using the power back door drive unit. **[Magnetic Clutch OFF]** • Does not transmit the rotation of the power back door motor to the driven gear to allow the back door to be manually opened.
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 back door ajar status.
	Position Switch	Detects the initial (neutral) position of the driven gear of the opener & closer motor. This 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 turns OFF when the back door is closed.
Power Back Door Opener/Closer Switch		The back door opens or closes when this switch is turned ON from the vehicle interior.
Power Back Door Closer Switch		The power back door closes when this switch is turned ON from the vehicle exterior.
Power Back Door OFF Switch		• Setting this switch to OFF prohibits system operation. • In case that this switch is OFF, it is possible to open/close the back door 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, these buzzers 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 jammed object has been detected.
Touch Sensor (RH, LH) [See page BE-126]		Detects if an object is jammed in the back door.
Main Body ECU (Instrument Panel Junction Block)		The main body ECU (instrument panel junction block) transmits a back door lock/unlock control signal, vehicle speed signal, and a shift P signal to the power back door ECU via CAN (Controller Area Network). Also, it receives a hazard request signal from the power back door ECU via CAN, and operates the turn signal flasher relay.
Key		Transmits a power back door button signal to the door control receiver.
Door Control Receiver		Receives a power back door button signal and transmits it to the smart key ECU assembly.

2. Touch Sensor

The touch sensor consists of conductive rubber and a core wire. When the conductive rubber is compressed its resistance value decreases and electric current flows through the core wire. This signal is input to the power back door ECU, which uses it to determine that the back door has contacted something.



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