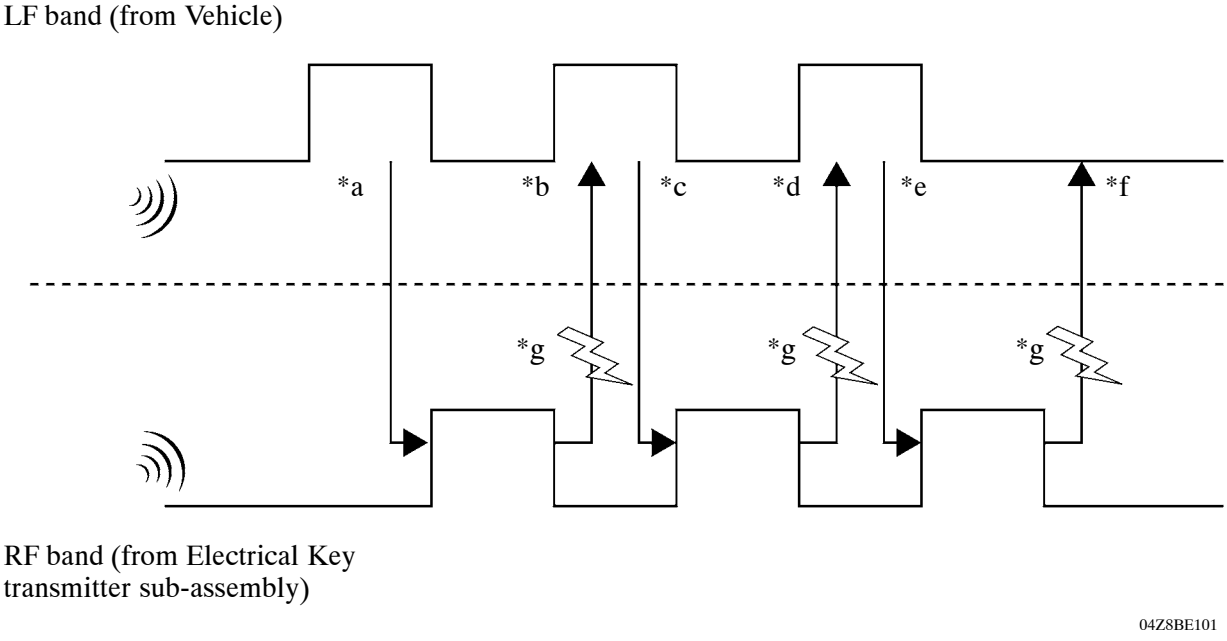
■ CERTIFICATION ECU

a. The electrical key transmitter sub-assembly and certification ECU can operate on 2 different RF channels. When an electrical key transmitter sub-assembly is brought within an exterior detection area, key verification begins. If key verification fails due to radio wave interference, the channel will be switched and key verification will be performed again. The multi-channel system begins verification using the channel on which the last verification was successfully performed. When verification fails, the system switches to the other channel.



*a	Exterior detection areas are created using LF waves to receive a response from the electrical key transmitter sub-assembly.
*b	Pressing the unlock button of the electrical key transmitter sub-assembly unlocks all doors.
*c	Upon receiving the response from the electrical key transmitter sub-assembly, the certification ECU (smart key ECU assembly) activates the electrical key antennas (outside) one by one. Using LF waves, the certification ECU (smart key ECU assembly) determines which exterior detection area the electrical key transmitter sub-assembly is in.
*d	The electrical key transmitter sub-assembly receives the LF waves from the vehicle and responds using RF waves. (The certification ECU (smart key ECU assembly) recognizes which exterior detection area the electrical key transmitter subassembly is in.)
*e	The certification ECU (smart key ECU assembly) sends registered key ID information to the electrical key transmitter subassembly using LF waves (Up to 4 key IDs can be registered).
*f	The electrical key transmitter sub-assembly sends the key ID information using RF waves. When the certification ECU (smart key ECU assembly) receives it, verification completes.
*g	Radio wave interference (Channel switching)

b. The multi-channel system changes channels when communication on the RF band (*b, *d and *f) is interrupted by radio wave interference.

Refer to the table below to confirm when the system changes channels.

	*b or *d is NG		*f is NG	
Condition	RF waves cannot be received	RF waves cannot be received properly	RF waves cannot be received	RF waves cannot be received properly
Channel switching	Channels will not be switched.	Channels will be switched.	Channels will be switched.	Channels will be switched.

■ KEY

Construction

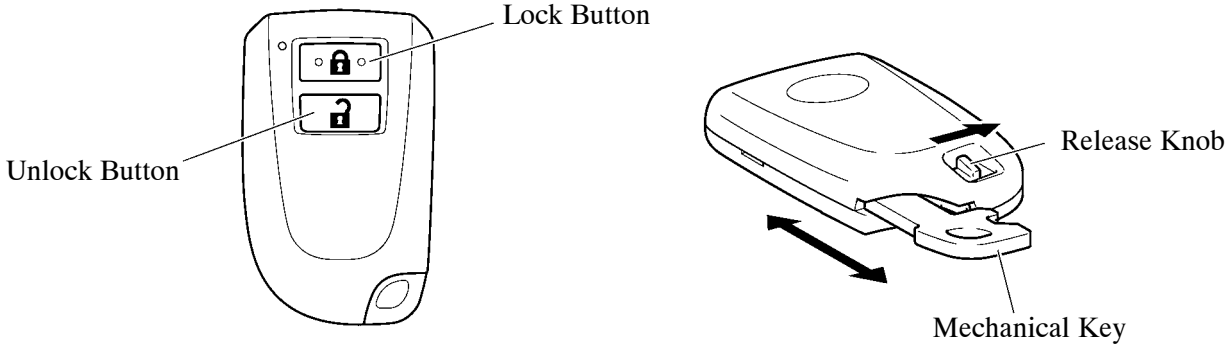
a. The electrical key transmitter sub-assembly consists of a mechanical key, a transmitter for the wireless door lock control and a transceiver for the entry and start system.

b. The transceiver for the entry and start system receives the signals from the indoor electrical key antenna assemblies, and returns the ID code to the door control receiver.

c. The transmitter for the wireless door lock control has a lock button and unlock button.

d. When the key battery is low, the radio wave response received from the engine switch is returned to the engine switch by the electrical key transmitter sub-assembly.

e. This mechanical key works for the driver's door, but cannot start the engine.



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