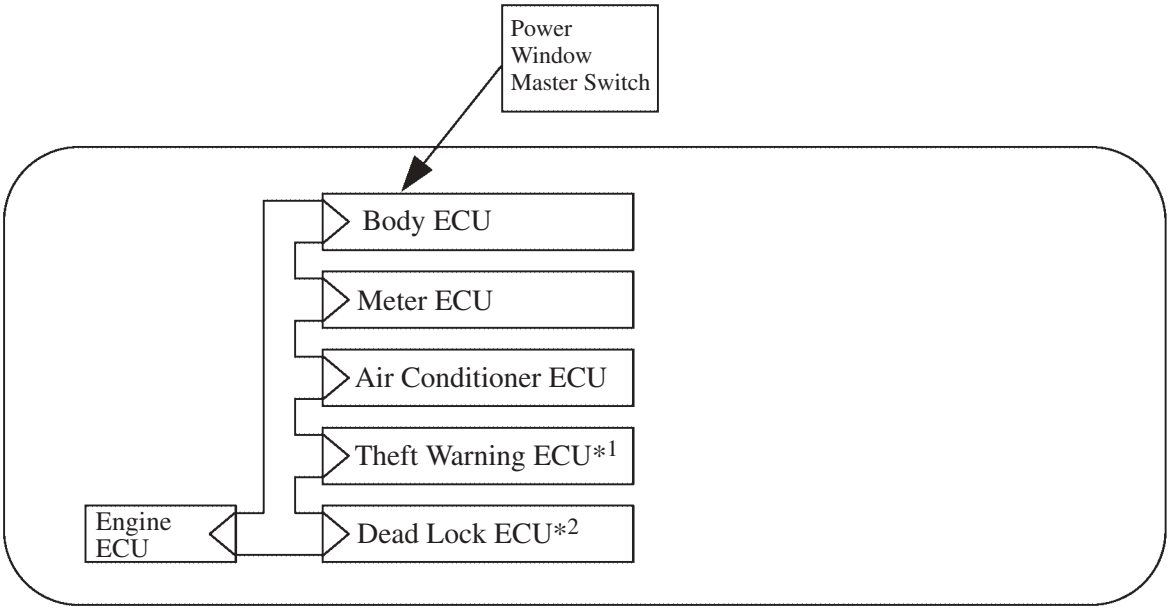
BODY ELECTRICAL

MULTIPLEX COMMUNICATION SYSTEM

■DESCRIPTION

- A multiplex communication system has been adopted for body electrical system control and to achieve a slimmer wiring harnesses configuration.
- A customized body electronics system, which improves the malfunction diagnostic function, enables the functions to be changed according to customer needs, and reduces the types of parts, has been adopted.
- In addition to the communication that is implemented between ECUs multiplex communication has been adopted in the transfer of signals between systems and parts such as the engine ECU, body ECU, meter ECU, etc.



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*1: RHD Model Only
*2: European RHD Model Only

■SYSTEM OPERATION

1. General

The corresponding chart below illustrates the relationship between the body electrical system and the ECUs under the control of the multiplex communication system.

Item	Body ECU	Engine ECU	Meter ECU	Air Conditioner ECU	Theft Warning ECU *1	Dead Lock ECU *2
Power Window Control	○					
Door Lock Control	○					Δ
Wireless Door Lock Remote Control	○				Δ	Δ
Automatic Light Control*1					○	
Theft Deterrent*1					○	
Illuminated Entry System	○					
Trunk Lid Open	○					
Fog Light Control					○*1	
Customized Body Electronics	○		Δ	Δ	Δ	
Diagnosis	○		Δ	Δ	Δ	
Seat Belt Warning (Drive's side)	○		Δ			
ECT Signal Processing		○	Δ	Δ		
Air Conditioner Control		Δ		○		
Meter Indication	Δ	Δ	○	Δ		
Dead Lock*2	Δ					○

○: Master control (The ECU, which has a central role in controlling each system, outputs the signals to other ECUs to activate motors or other applicable components.)

Δ: Sub control (The ECU which has a supporting role in controlling each system, outputs control signals to the master control, or receives signals from the master control to activate motors or other applicable components.)

*1: RHD Model Only
*2: With Dead Lock System