MULTIPLEX COMMUNICATION SYSTEM

■DESCRIPTION

A multiplex communication system has been adopted for the body electrical system control, including the power window system and the door lock control system, etc.
This system has the follwing characteristics.

- As in the LS400, this system's functionality as well as its expandability have been improved through the adoption of the large-scale multiplex communication system.
- Along with the adoption of the large-scale multiplex communication system, the BEAN (Body Electronics Area Network), which excels in communication capability, has been adopted for the communication system.
- 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.

■SYSTEM CONSTRUCTION

The functions of the multiplex communication system on the new GS300 has the following characteristics.

- 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, combination meter, air conditioner, etc.
- Certain control functions of the system, such as automatic light control, wireless door lock control, etc., have been integrated into this system.
- If a malfunction occurs in the communication bus that transfers the signals between parts and ECUs, a bus switch is provided in the No. 1 and 2 body ECUs to separate the instrument panel bus (which links the meter, engine ECU, etc. with the No. 1 and 2 body ECUs) from the door bus (which links the door switches, seat ECU, etc. with the No. 1 and 2 body ECUs).

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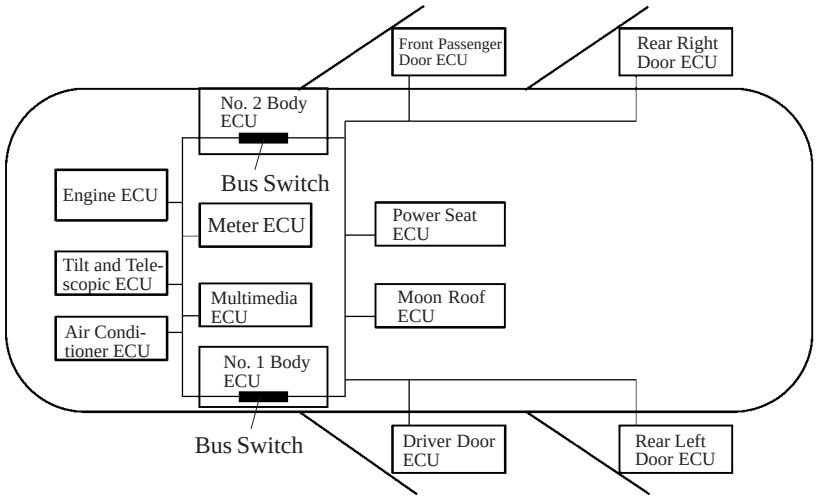
▶ System Diagram ◀



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