


■ MULTIPLEX COMMUNICATION SYSTEM

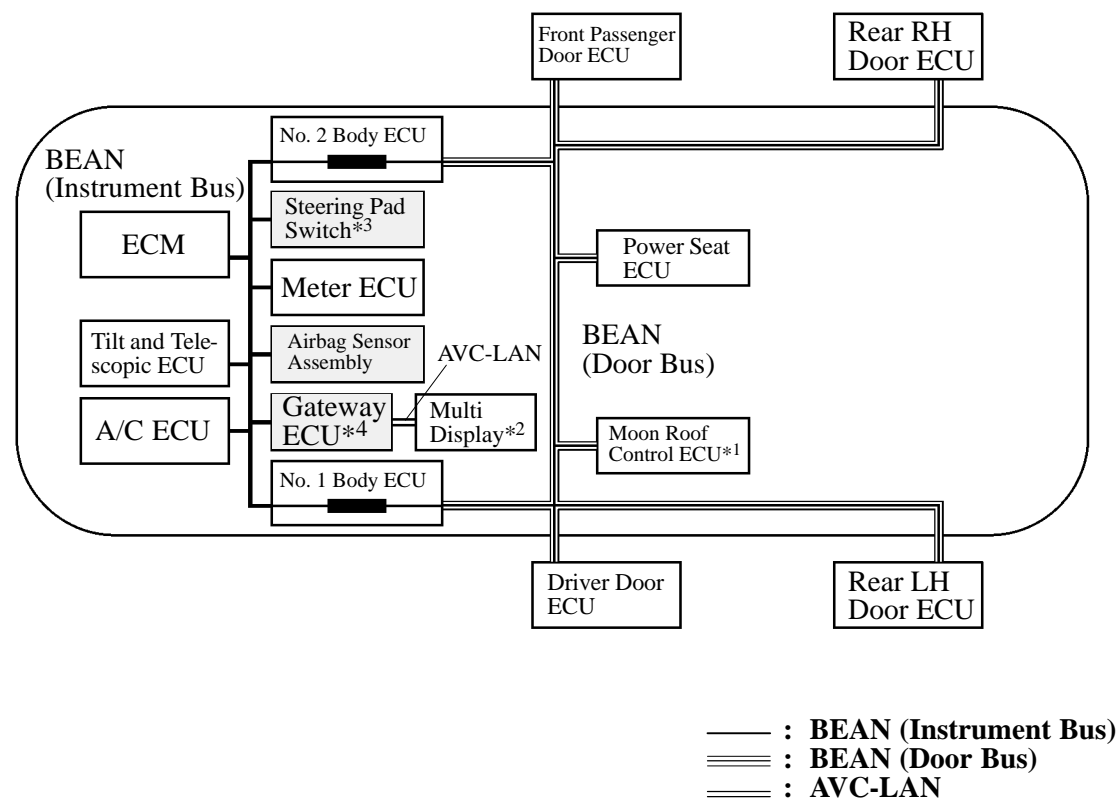
1. General

The following items have been changed in the '01 model.

- An airbag sensor assembly and a steering pad switch (only for the GS430) have been newly added to the BEAN (Body Electronics Area Network). Furthermore, on the models with the GPS (Global Positioning System) voice navigation system, a gateway ECU that provides the function to convert the transmission signals between the BEAN and the AVC-LAN (Audio Visual Communication - Local Area Network) has been added. Along with the addition of these items, new DTCs (Diagnosis Trouble Codes) have been added to the multiplex communication system. For details, refer to the '01 GS430/300 Repair Manual (Pub. No. 791U).
- The multimedia ECU has been discontinued.

► System Diagram ◀

Shaded portions  differ from the '00 model.



*1: with Moon Roof

*2: with GPS Voice Navigation System

*3: Only for the GS430

*4: All models for GS430 and GPS Voice Navigation System equipped model for GS300.

2. System Operation

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

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Shaded portions  differ from the previous model.

Item	Door Bus								Instrument Panel Bus						
	No. 1 Body ECU	No. 2 Body ECU	Driver Door ECU	Front Passenger Door ECU	Rear RH Door ECU	Rear LH Door ECU	Seat ECU	Moon Roof ECU	ECM	Meter ECU	Air Conditioning ECU	Airbag Sensor Assembly	Tilt and Telescopic ECU	Steering Pad Switch	Gateway ECU
Power Window	⌚	⌚	○	⌚	⌚	⌚		⌚							
Door Lock Control	○	⌚	⌚	⌚	⌚	⌚				⌚		⌚			
Wireless Door Lock Remote Control	○	⌚	⌚	⌚	⌚	⌚		⌚							
Light Auto Turn-Off		○	⌚	⌚	⌚	⌚									
Automatic Light Control		○	⌚							⌚					
Theft Deterrent	○	⌚	⌚	⌚	⌚	⌚									
Illuminated Entry		○	⌚	⌚	⌚	⌚									
Key Reminder Buzzer		○	⌚												
Trunk Lid Open	○														
Mirror Control	⌚	⌚	○	○											
Front and Rear Fog Lights Control		○								⌚					
Customized Body Electronics	○		⌚	⌚	⌚	⌚		⌚			⌚				
Diagnosis	○	⌚	⌚	⌚	⌚	⌚	⌚	⌚		⌚	⌚		⌚		
Memory Adjust			⌚	⌚			○						⌚		
Seat Belt Warning	⌚	⌚								○					
ECT Signal Processing	⌚								○	⌚					
Air Conditioning Control	⌚								⌚		○				
Displays of Various Meters	⌚	⌚	⌚	⌚	⌚	⌚		⌚	⌚	○	⌚				
Displays of Various Types of Vehicle Information									⌚	○					
Audio Switch Operation															

○: 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.)

⌚: 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.)