

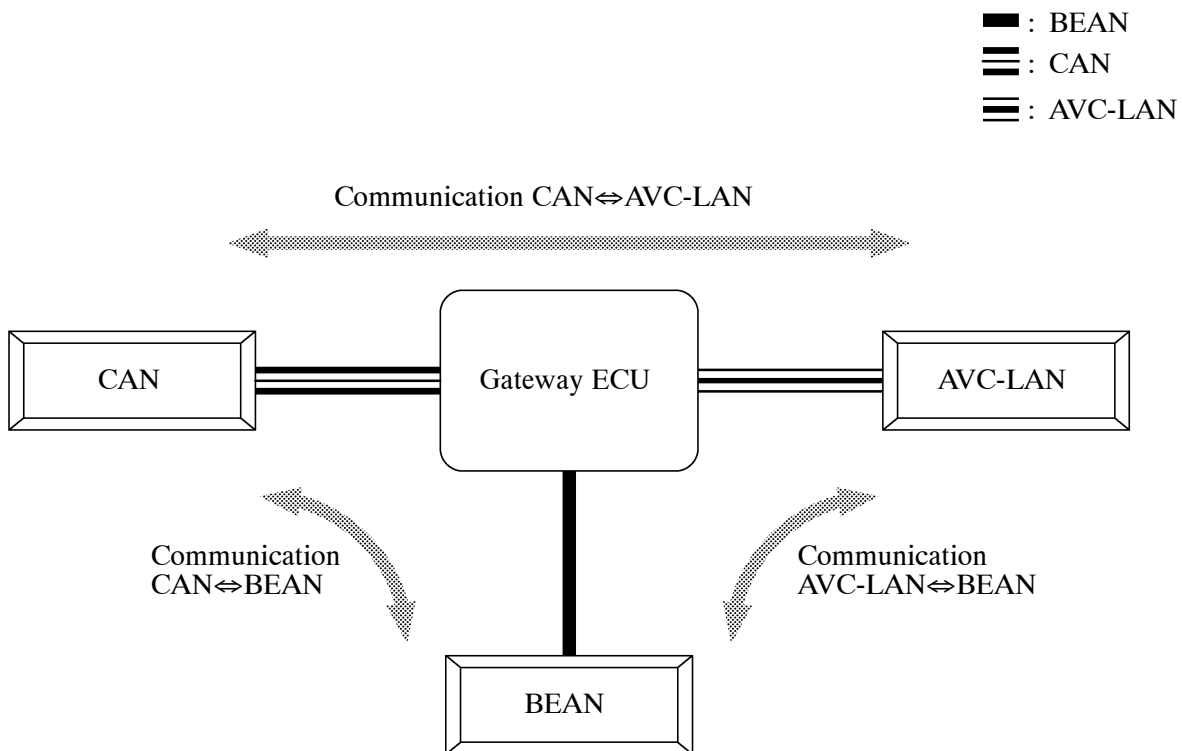
## BODY ELECTRICAL

### MULTIPLEX COMMUNICATION

#### ■ DESCRIPTION

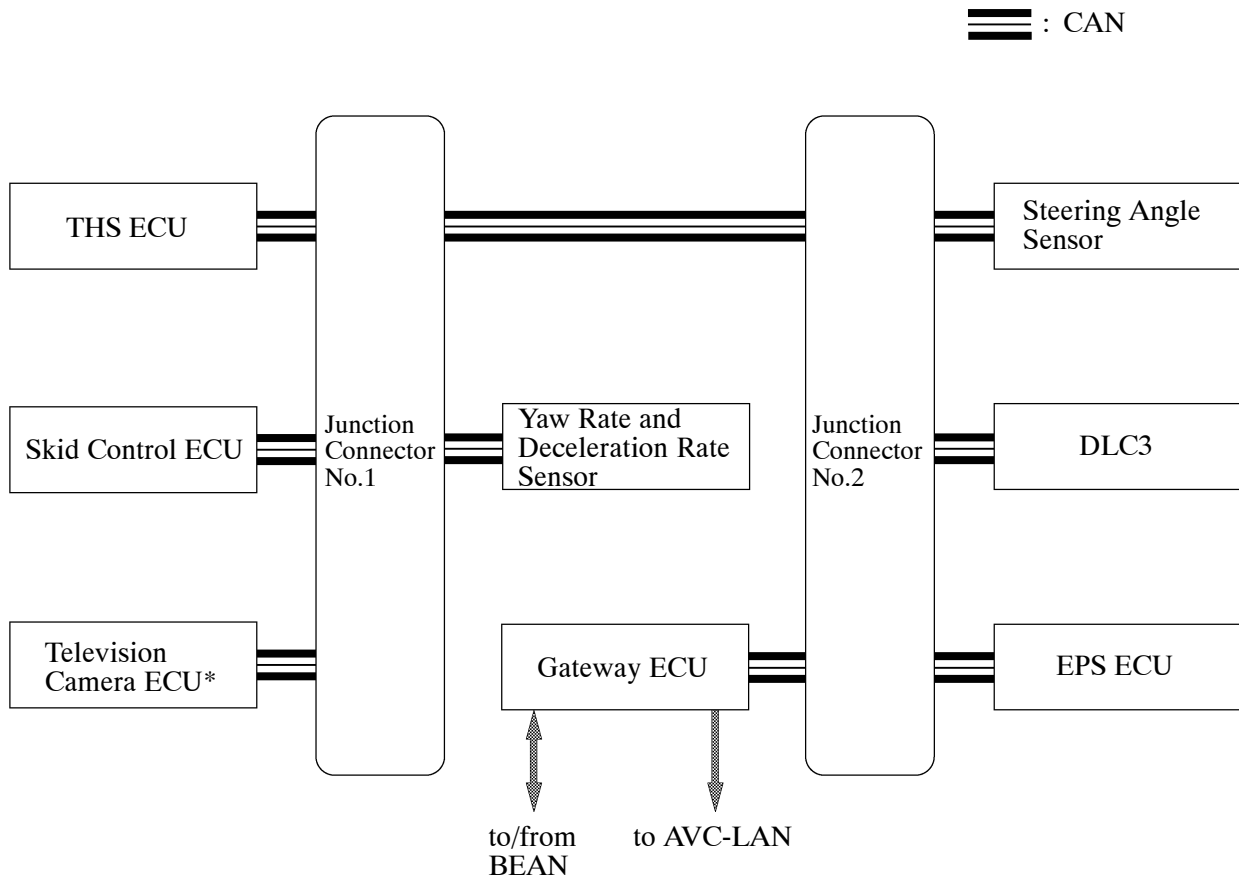
- The RX400h uses the three types of multiplex communication systems described below in order to achieve a slimmer wiring harness configuration.
  - CAN (Controller Area Network), which networks the vehicle control systems (engine electrical, chassis electrical, body electrical [LEXUS parking assist], and hybrid system) and maintains communication between the ECUs, is used.
  - BEAN (Body Electronics Area Network), which networks the ECUs of the body electric system control and maintains communication between the ECUs, is used.
  - AVC-LAN (Audio Visual Communication - Local Area Network), which networks the ECUs of the audio visual system and the audio visual devices, and maintains communication between the devices and the ECUs, is used.
- These three types of multiplex communication systems are connected to the gateway ECU. The gateway ECU, which is provided with communication circuits that support the three types of multiplex communication systems, enables communication among the multiplex communication systems that are connected to the gateway ECU.

For example, to enable air conditioner control, the air conditioner ECU receives the engine coolant temperature signal that is input into the THS ECU via CAN, gateway ECU, and BEAN. Thus, a slimmer wiring harness configuration can be realized.



- The CAN in the RX400h is established among the THS ECU, EPS ECU, skid control ECU, steering angle sensor, yaw rate and deceleration rate sensor, television camera ECU\*, gateway ECU and DLC3.

► CAN System Diagram ◀



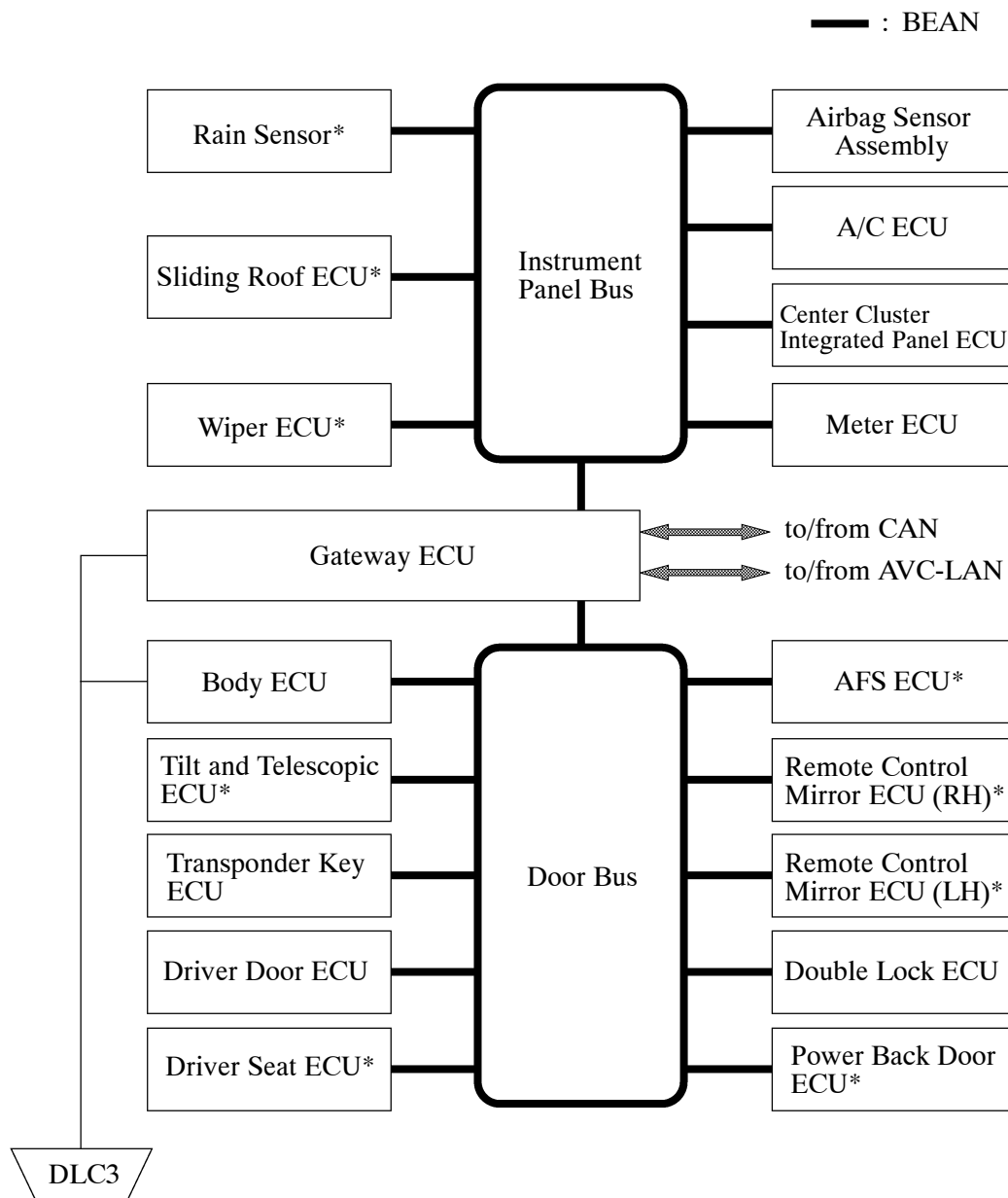
LHD Model

278BE01

\*: Optional Equipment

- On the RX400h, the BEAN system has been changed from the single bus configuration of the current RX300 to a dual bus configuration consisting of a door bus and an instrument panel bus.
- The BEAN (instrument panel bus) in the RX400h is established among the meter ECU, air conditioner ECU, airbag sensor assembly, sliding roof ECU\*, rain sensor\*, wiper ECU\*, center cluster integrated panel ECU, and gateway ECU.
- The BEAN (door bus) in the RX400h is established among the body ECU, remote control mirror ECU (LH), remote control mirror ECU (RH), driver door ECU, power back door ECU\*, driver seat ECU, transponder key ECU, double lock ECU, tilt and telescopic ECU\*, AFS ECU\* and gateway ECU.
- A customized body electronic system is used, enabling the control functions of the ECUs comprising the BEAN to be set using an intelligent tester II. For details, see [page BE-20](#) of the customized body electronic system section.

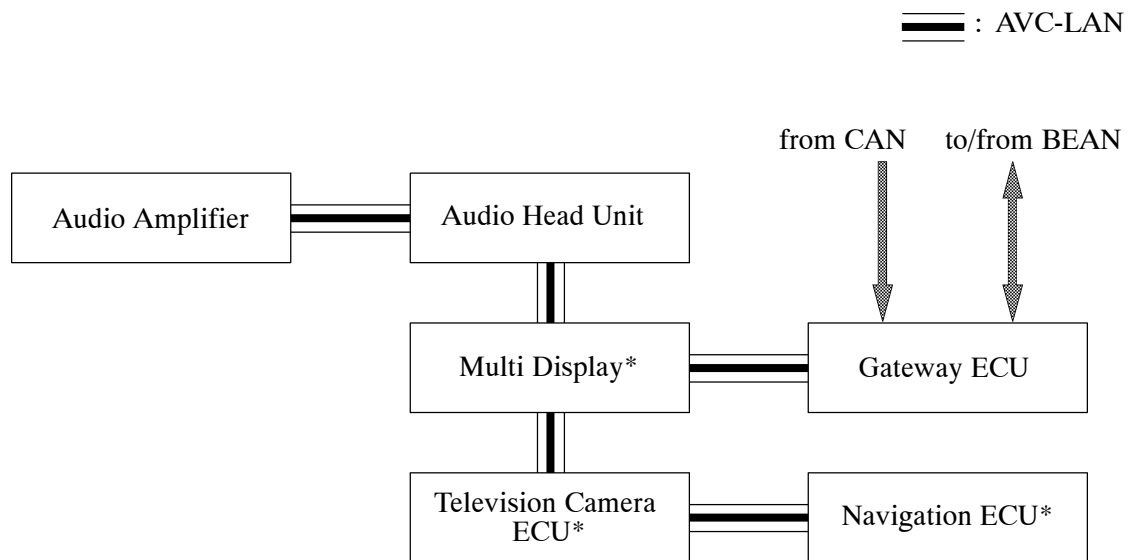
### ► BEAN System Diagram ◀



\*: Optional Equipment

- The AVC-LAN is established among the gateway ECU, multi display, audio head unit, audio amplifier, television camera ECU\*, and navigation ECU\*.

► AVC-LAN System Diagram ◀



\*: Optional Equipment

277BE89