BODY ELECTRICAL

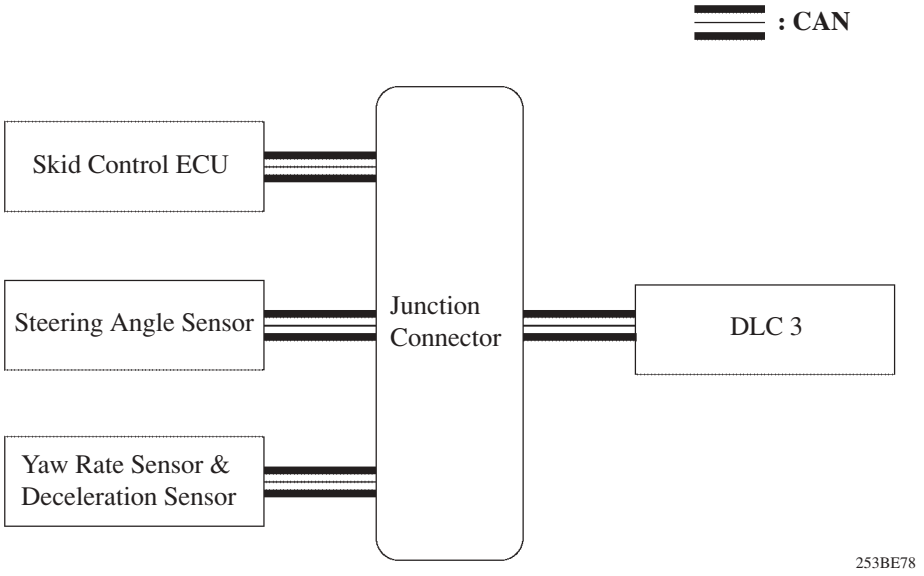
MULTIPLEX COMMUNICATION SYSTEM

■ DESCRIPTION

A multiplex communication system is used for body electrical system control and to achieve a slimmer wiring harnesses configuration.

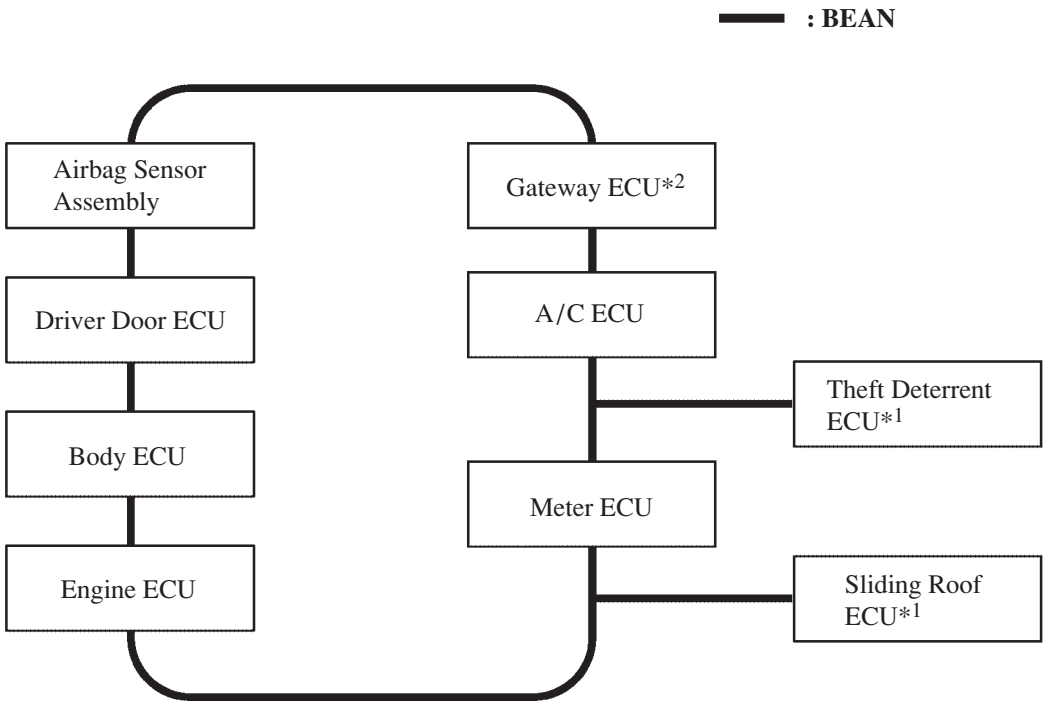
- On the new Kluger, the CAN (Controller Area Network) multiplex communication has been adopted in the brake control system.
- The CAN establishes communication among the skid control ECU, steering angle sensor, yaw rate & deceleration sensor and DLC3.
- The CAN consists of a main bus line which contains junction connectors, and sub bus lines that connect the ECUs and sensors to the main bus line. Because the CAN uses twist pair wires, the bus lines consist of two communication lines with high and low voltages. The two communication lines are connected by a resistor, which is provided at the end of the main bus line.

▶ CAN System Diagram ◀



- The BEAN (Body Electronics Area Network) has been adopted to maintain communication among the Body ECU, Engine ECU, Meter ECU, A/C ECU, Gateway ECU, Airbag Sensor Assembly, Driver Door ECU, Sliding Roof ECU and Theft Deterrent ECU.
- A customized body electronic system is used, enabling the control functions of the ECUs comprising the BEAN to be set using a hand-held tester. For details, see page BE-17 of the Customized Body Electronic System section.

▶ BEAN System Diagram ◀

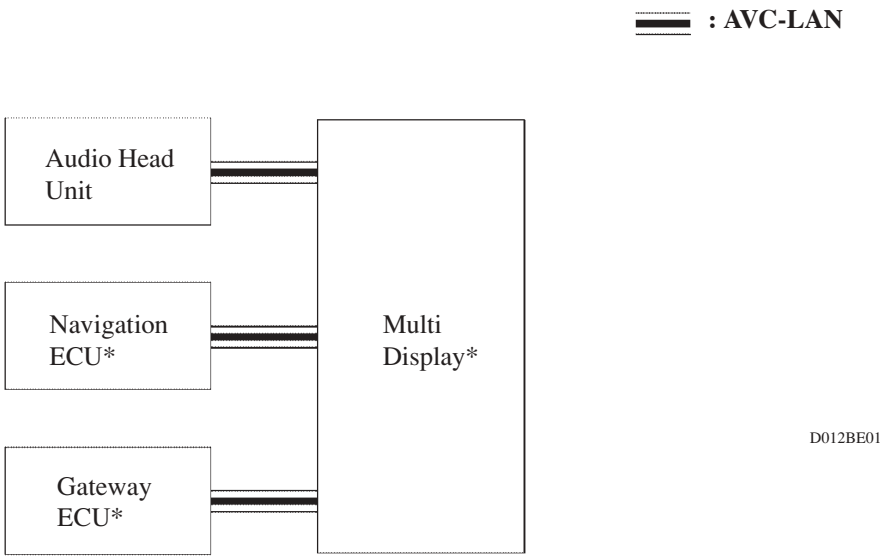


*1: Optional equipment
*2: Models with multi display

257HL141

- The AVC-LAN (Audio Visual Communication-Local Area Network) is established among the multi display, navigation ECU, gateway ECU and audio head unit.

▶ AVC-LAN System Diagram ◀



*: Models with multi display