■CAN

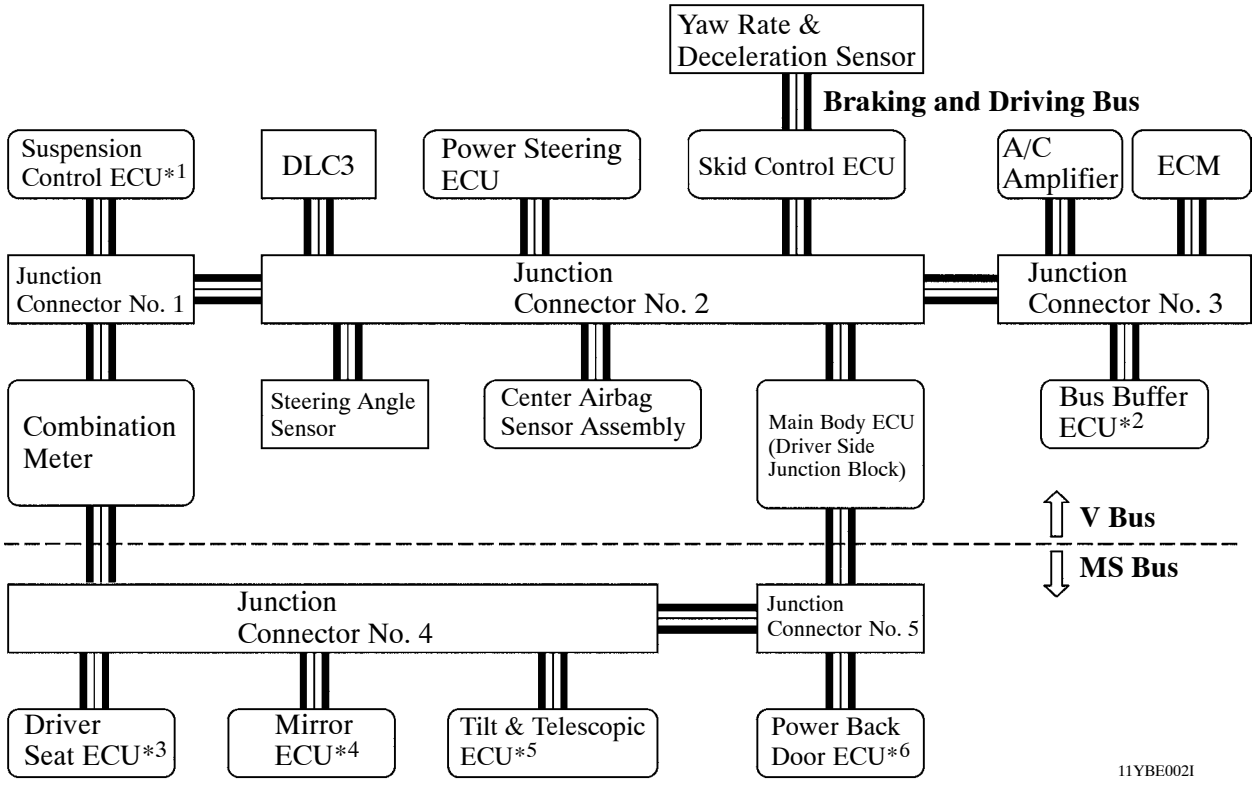
1. General

The Controller Area Network (CAN) uses 2 different CAN buses: V bus and braking and driving bus for high-speed communication (500 kbps) and MS bus for medium-speed communication (250 kbps).

- The CAN has terminating resistors of 120 Ω which are necessary for accurate judgment of communication on the main bus.
- The terminating resistors for the V bus are located in the ECM and the combination meter.
- The terminating resistors for the MS bus are located in the main body ECU and the combination meter.
- The combination meter is connected to MS bus only for the terminating resistor. The combination meter does not communicate using the MS bus.
- The main body ECU has a gateway function and is used to transmit data between the V bus and the MS bus.

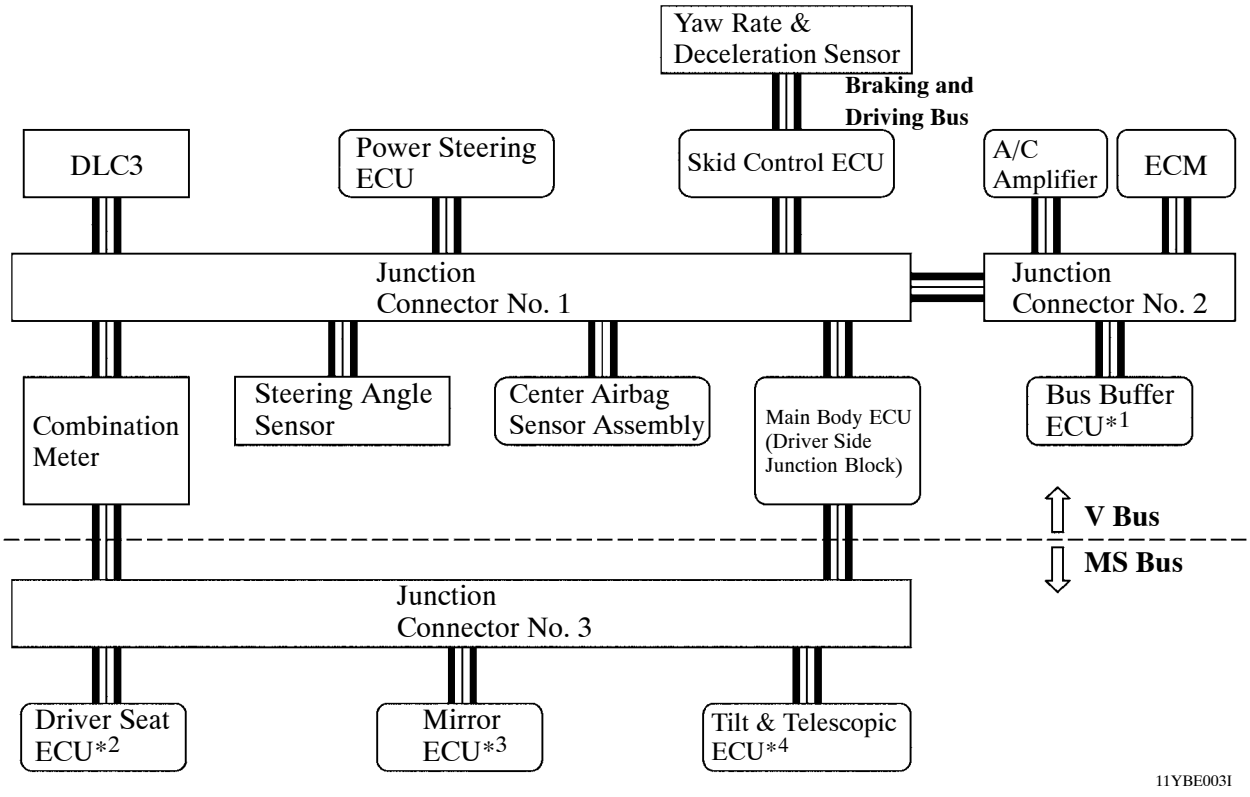
2. Wiring Diagram

▶ Models with Rear Air Suspension System and Power Back Door System ◀



*1: Models with rear air suspension system
*2: Optional equipment
*3: Models with power seat system
*4: Models with memory system
*5: Models with power tilt and telescopic steering column
*6: Models with power back door system

▶ Models without Rear Air Suspension System and Power Back Door System ◀

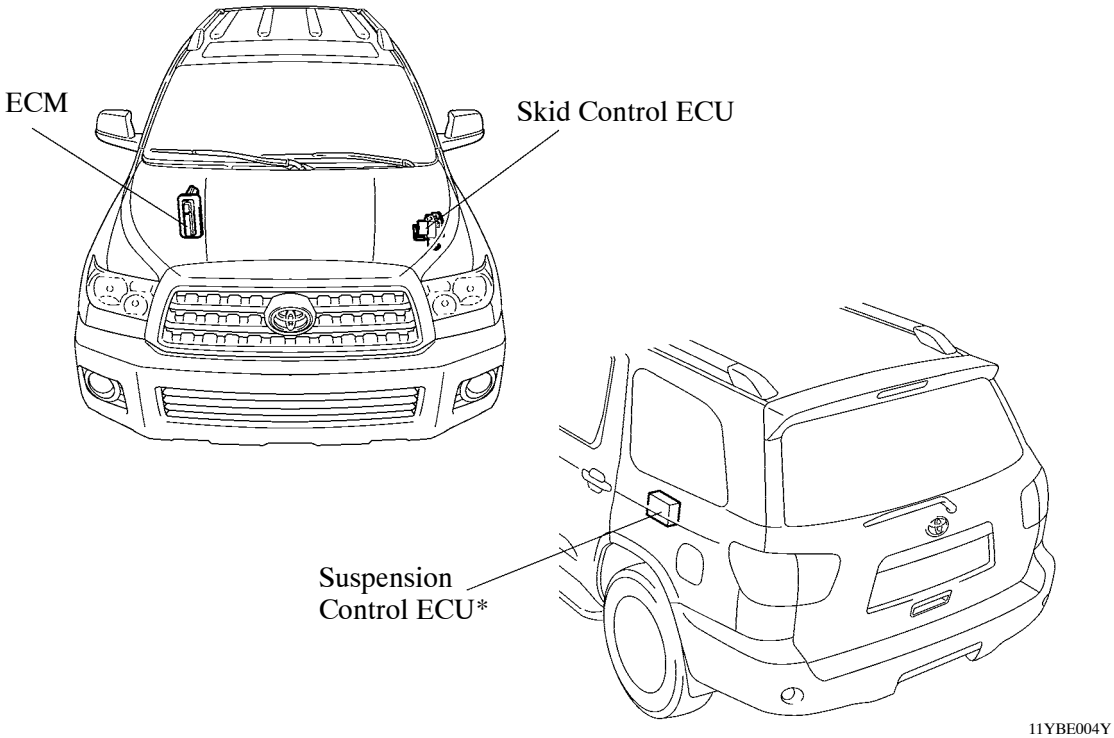


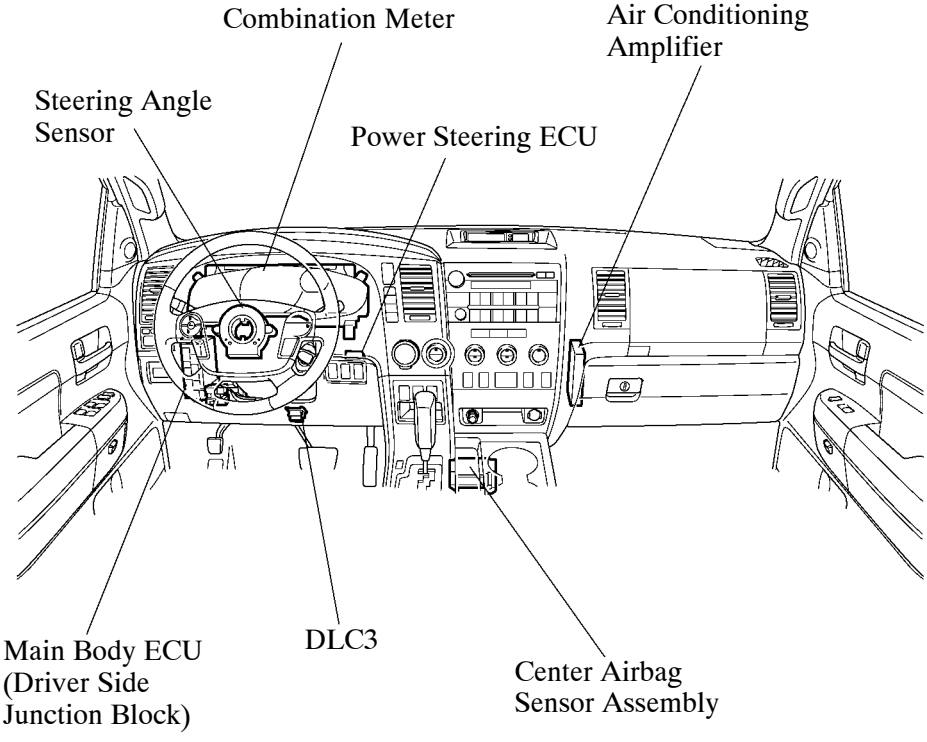
*1: Optional equipment
*2: Models with power seat system
*3: Models with memory system
*4: Models with power tilt and telescopic steering column

BE

3. Layout of Main Components

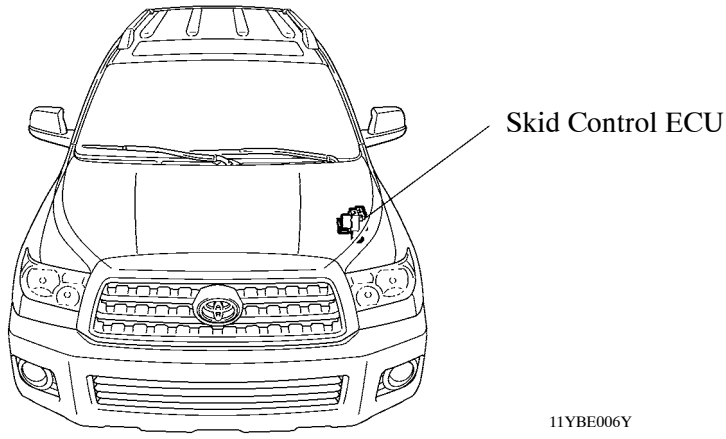
V Bus

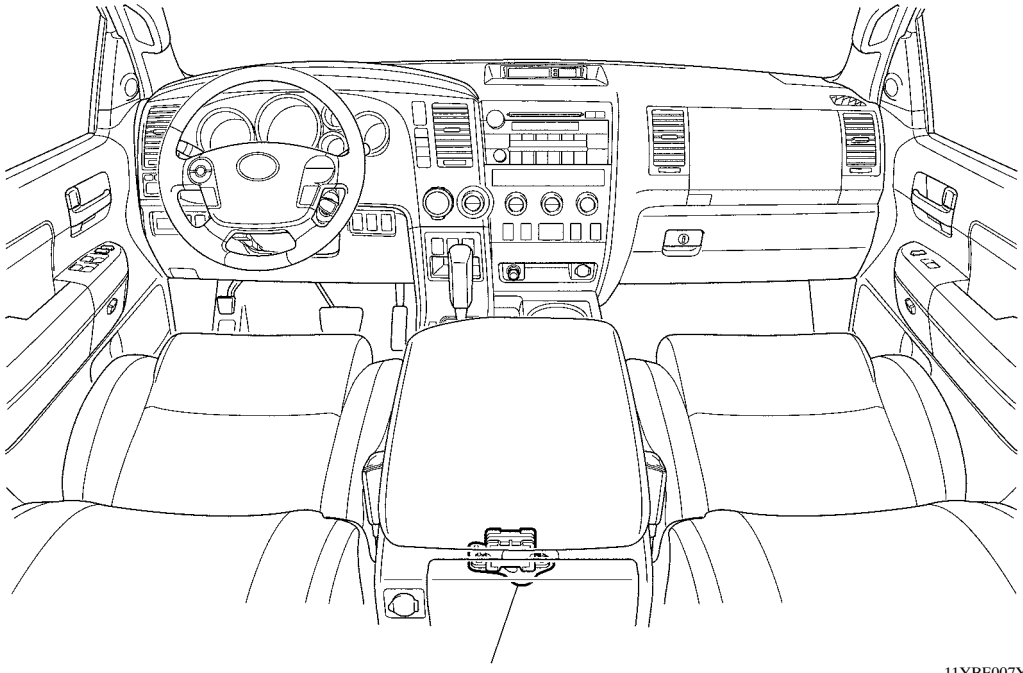




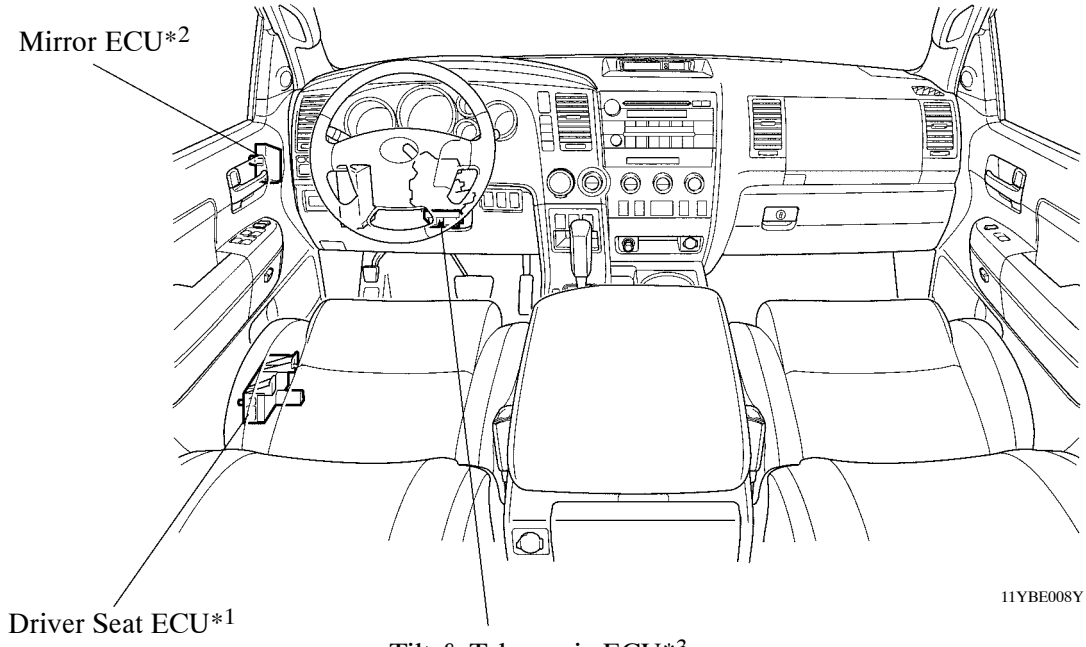
*: Models with rear air suspension system

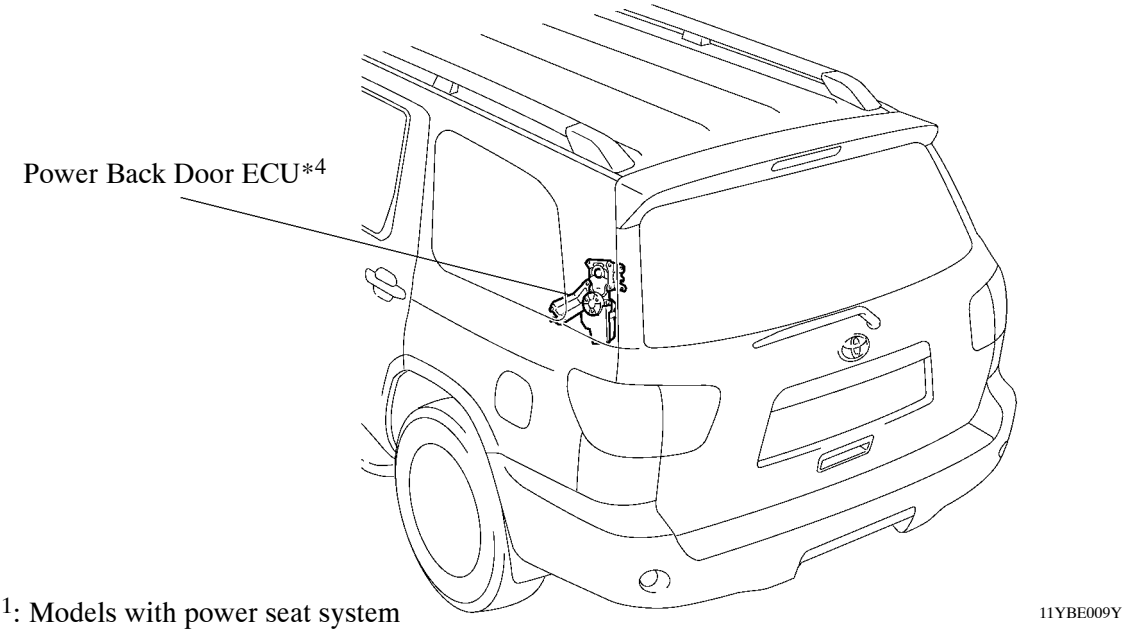
Braking and Driving Bus





MS Bus





*1: Models with power seat system
*2: Models with memory system
*3: Models with power tilt and telescopic steering column
*4: Models with power back door system

4. Diagnosis

If a malfunction occurs on the CAN communication bus, ECUs that are connected to the CAN communication bus store the Diagnostic Trouble Code (DTC) in memory.

- The 5-digit DTCs can be read after connecting the intelligent tester II to DLC3.
- The DLC3 is equipped with a CAN-H terminal and a CAN-L terminal on the V bus to allow CAN diagnosis. It is possible to determine if there is an open or short circuit in the main wires of the V bus by measuring the resistance value between these terminals.

For details, refer to the SEQUOIA Repair Manual (Pub. No. RM11Y0E).