■ CAN COMMUNICATION SYSTEM

1. Outline

- The Controller Area Network (CAN) has been adopted for the some models.
- The Controller Area Network (CAN) is a serial data communication network for real-time application. It is a multiplex communication network to be equipped in a vehicle, and has communication speeds of 500 kbps (HS-CAN) and the ability to detect malfunctions.
- HS-CAN consists of a bus 2, bus 4, bus 5 and V bus.
- The communication wire used is a twisted-pair wire. The bus line has a high line (2.5 V to 3.5 V is applied) and a low line (1.5 V to 2.5 V is applied).
- The central gateway ECU (network gateway ECU) has a gateway function and is used to transmit data between bus 2, bus 4, bus 5 and V bus.
- The terminating resisters for each bus are located as shown in the following table.

Bus	Terminating Resistor Location	Gateway Function	Gateway Destination
CAN Bus 2	• Central Gateway ECU (Network Gateway ECU) • ECM	Central Gateway ECU (Network Gateway ECU)	to Each Bus
CAN Bus 4	• Central Gateway ECU (Network Gateway ECU) • Air Bag ECU Assembly*1 • CAN Junction Terminal*2	Central Gateway ECU (Network Gateway ECU)	to Each Bus
CAN Bus 5	• Central Gateway ECU (Network Gateway ECU) • Combination Meter Assembly	Central Gateway ECU (Network Gateway ECU)	to Each Bus
CAN V Bus	Central Gateway ECU (Network Gateway ECU)	Central Gateway ECU (Network Gateway ECU)	to Each Bus

HINT:
***1: Models with SRS airbag system**
***2: Models without SRS airbag system**