■MULTIPLEX COMMUNICATION

1. General

- CAN (Controller Area Network) communication has been adopted in the brake control system of the vehicles equipped with the VSC system.

- CAN is a type of on-vehicle multiplex communication system that performs excellent data communication and error detection between ECUs and sensors.

- CAN uses twisted-pair wires, consisting of two wires, CAN-H and CAN-L, which have different voltages to establish communication.

- The CAN in Avensis Verso is connected to the Skid Control ECU, steering angle sensor, yaw rate and deceleration sensor and DLC 3 (Data Link Connector). However, the diagnosis information from the skid control ECU is output from the SIL line.

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▶ **Characteristic** ◀

- Simplifies the wiring harness routing because communication among all the ECUs connected to CAN is made possible through the use of a pair of communication wires.

- Its communication speed is faster than the BEAN (Body Electronics Area Network) used on other models.

Communication Type	CAN	BEAN
Communication Speed	500 Kbps	MAX: 10 Kbps

▶ **System Diagram** ◀

Yaw Rate Sensor

━━━ : CAN Main Bus Line (High)
▒▒▒ : CAN Main Bus Line (Low)
■ ■ ■ : CAN Sub Bus Line (High)
▨ ▨ ▨ : CAN Sub Bus Line (Low)
───── : Serial Communication Line

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