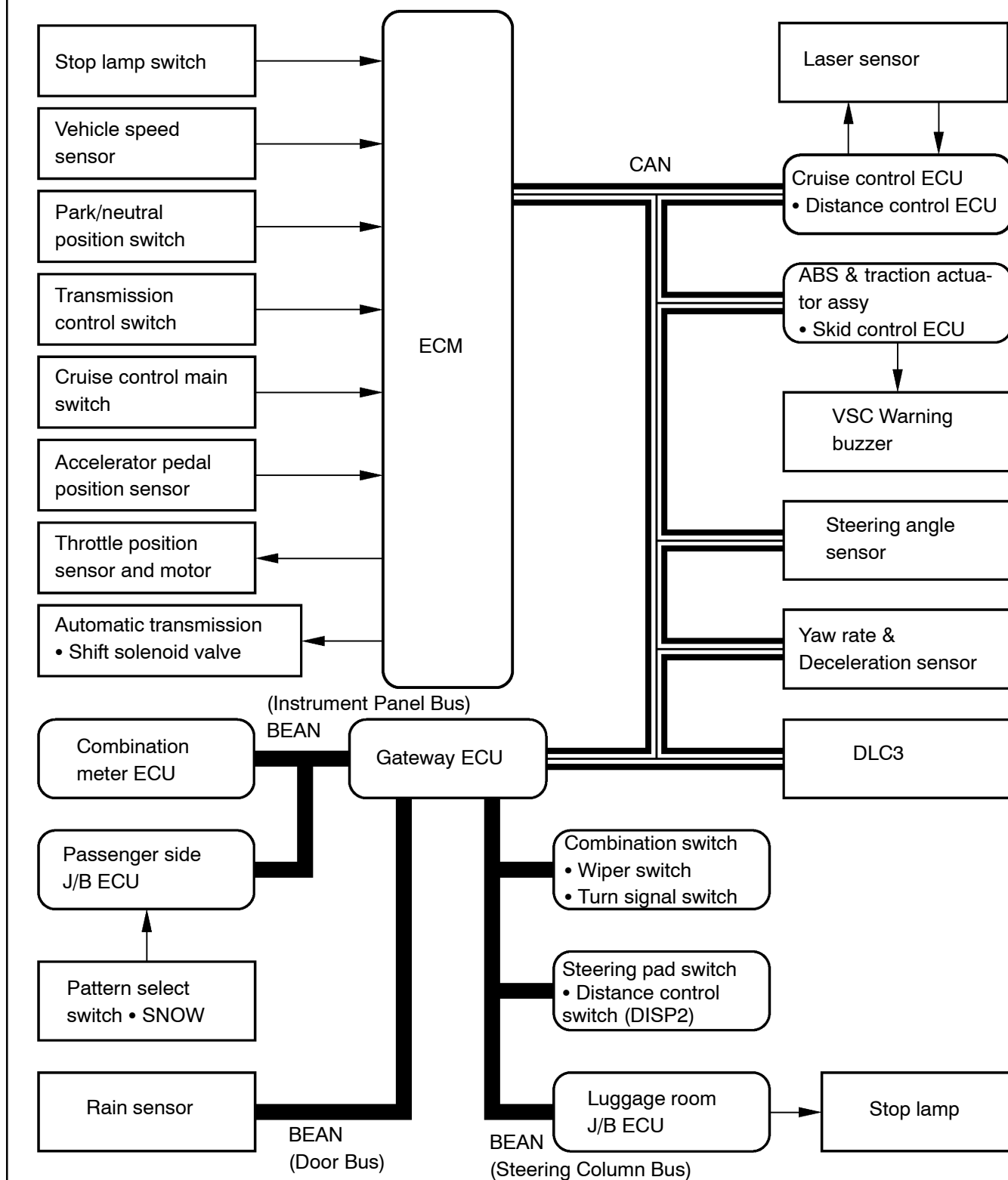


SYSTEM DIAGRAM

Refer to the next page for input and output signals of each ECU.



Input and output signals of each ECU.

Transmitting ECU (transmitter)	Receiving ECU	Signals	Communication method
ECM	Distance Control ECU (Cruise Control ECU)	• A/T transmission signal • Cruise control operation signal • Cruise control low speed operation signal • Accelerator pedal idle signal • Set vehicle time signal • Cruise control cancel signal • Brake demand response signal • Stored vehicle speed signal • Current vehicle speed signal • Cruise control switch signal • Brake control operation signal • Cruise control demand throttle opening angle signal • Laser light emission prohibiting signal • Dynamic laser cruise designation signal • Brake control interrupting signal • Steering wheel signal • Cruise control demand opening angle signal	CAN
Distance Control ECU (Cruise Control ECU)	ECM	• Laser sensor optical axis deviation signal • Laser sensor malfunction signal • Laser sensor grime signal • Bad weather detection signal • Communication error signal (from distance control ECU to laser radar sensor) • Communication error signal (from ECM to distance control ECU) • Communication error signal (from skid control ECU to distance control ECU) • Yaw rate communication error signal • Steering sensor communication error signal • Distance control ECU voltage signal • Dynamic laser cruise designation response signal • Estimated vehicle speed signal • Vehicle-to-vehicle distance signal • Vehicle-to-vehicle distance control signal • Relative vehicle speed signal • Brake control demand signal • Throttle fully closed demand signal • Approach warning signal (VSC buzzer demand signal) • Cruise target deceleration gradient signal • Vehicle-to-vehicle distance control acceleration signal	CAN
ECM	Skid Control ECU	• Cruise target deceleration gradient signal • Cruise target deceleration signal • Throttle fully close demand signal • Brake control demand signal • Dynamic laser cruise control designation signal • Cruise control operation signal	CAN
Skid Control ECU	Distance Control ECU (Cruise Control ECU)	• Wheel speed signal • Speed sensor power drop signal • Speed sensor condition signal • Yaw rate sensor signal • Yaw rate sensor zero point error signal	CAN

Transmitting ECU (transmitter)	Receiving ECU	Signals	Communication method
Skid Control ECU	ECM	• Brake component malfunction signal • Brake control malfunction signal • Drive wheel slip signal • Cruise control cancel signal • VSC warning buzzer malfunction signal • Communication logic error signal (from ECM to skid control ECU) • Brake demand response signal • Brake control interrupting signal • Brake control operation signal	CAN
Steering Angle Sensor	Distance Control ECU (Cruise Control ECU)	• +B open circuit malfunction signal • Sensor malfunction signal • Steering angle signal • Sensor zero point signal	CAN
Yaw Rate & Deceleration Sensor	Distance Control ECU (Cruise Control ECU)	• Yaw rate sensor signal • Yaw rate sensor zero point error signal • Yaw rate sensor voltage signal	CAN
ECM	Combination Meter ECU	• Cruise control diagnosis signal (DTC) • Preceding vehicle detection signal • Approach warning signal • Vehicle-to-vehicle distance signal • Laser sensor grime signal • Bad weather detection signal • Vehicle-to-vehicle distance control signal • Vehicle-to-vehicle distance control check mode signal • Vehicle-to-vehicle distance control standby condition signal • Constant speed cruise signal • CRUISE indicator operation signal • Cruise control warning signal • Dynamic laser cruise warning signal • Cruise control vehicle speed signal	• CAN • BEAN (Instrument Panel Bus)
Distance Control ECU (Cruise Control ECU)	Combination Meter ECU	• Laser sensor optical axis deviation signal • Vehicle-to-vehicle distance signal • Preceding vehicle detection signal	• CAN • BEAN (Instrument Panel Bus)
Passenger Side J/B ECU	ECM	• ECT SNOW mode switch signal	• CAN • BEAN (Instrument Panel Bus)
Rain Sensor	Distance Control ECU (Cruise Control ECU)	• LO operation signal • HI operation signal	• CAN • BEAN (Door Bus)
Combination Switch	Distance Control ECU (Cruise Control ECU)	• Turn switch signal • Wiper switch position signal	• CAN • BEAN (Steering Column Bus)
Steering Pad Switch (DISP 2)	ECM	• Steering pad switch (DISP 2) signal	• CAN • BEAN (Steering Column Bus)
Luggage Room J/B ECU	• ECM • Distance Control ECU (Cruise Control ECU)	• Stop light operating condition signal	• CAN • BEAN (Steering Column Bus)