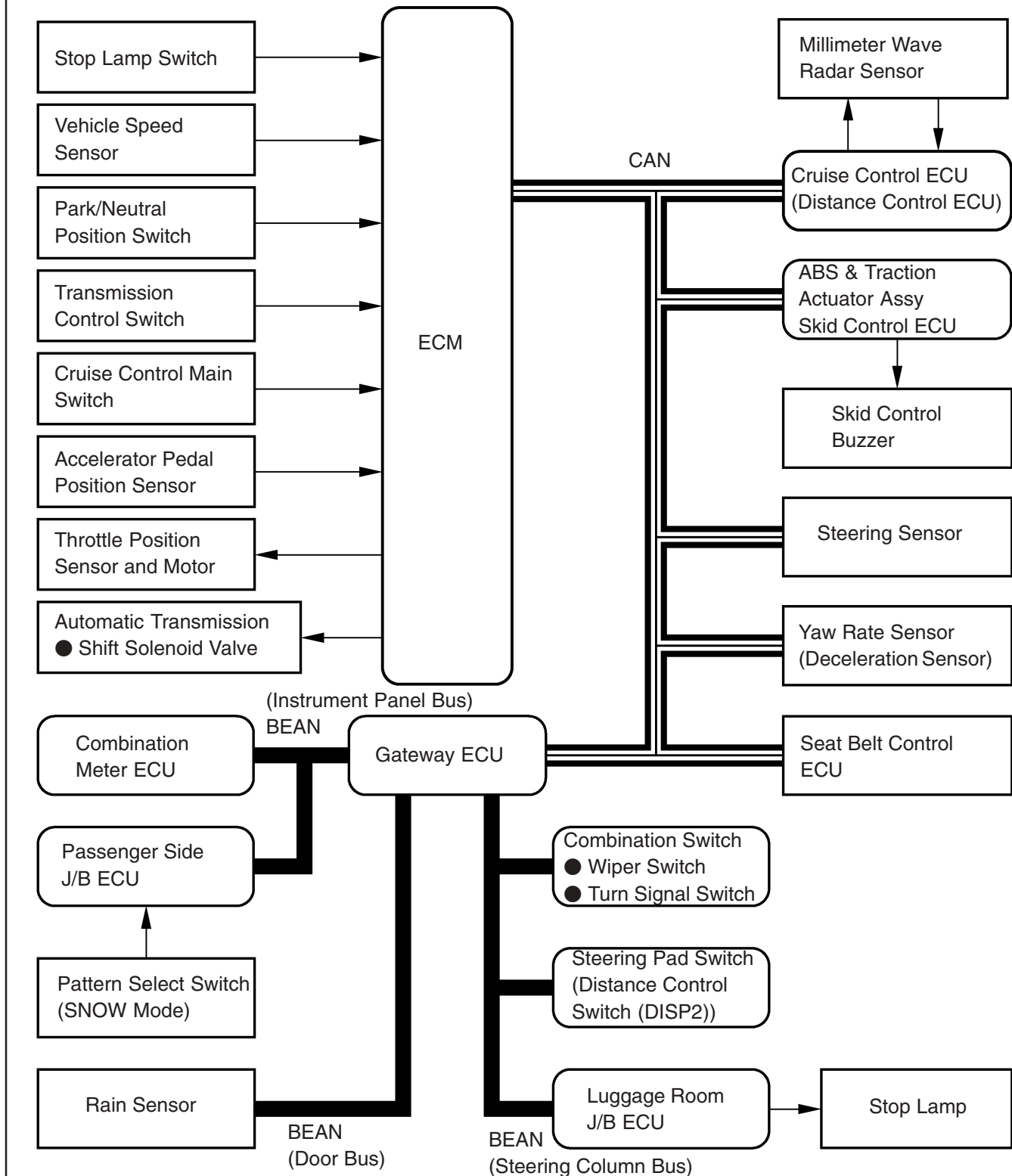


SYSTEM DIAGRAM

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

5



Input and output signals of each ECU

Transmitting ECU (Transmitter)	Receiving ECU	Signals	Communication Method
ECM	Cruise Control ECU (Distance Control ECU)	<ul style="list-style-type: none"> • 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 • Radar light emission prohibiting signal • Dynamic radar cruise designation signal • Brake control interrupting signal • Steering wheel signal • Cruise control demand opening angle signal 	CAN
Cruise Control ECU (Distance Control ECU)	ECM	<ul style="list-style-type: none"> • Millimeter wave radar sensor beam optical axis deviation signal • Millimeter wave radar sensor malfunction signal • Millimeter wave radar sensor grime signal • Bad weather detection signal • Communication error signal (from cruise control ECU (distance control ECU) to millimeter wave radar sensor) • Communication error signal (from ECM to cruise control ECU (distance control ECU)) • Communication error signal (from skid control ECU to cruise control ECU (distance control ECU)) • Yaw rate communication error signal • Steering sensor communication error signal • Distance control ECU voltage signal • Dynamic radar 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	<ul style="list-style-type: none"> • Cruise target deceleration gradient signal • Cruise target deceleration signal • Throttle fully close demand signal • Brake control demand signal • Dynamic radar cruise control designation signal • Cruise control operation signal 	CAN
Skid Control ECU	Cruise Control ECU (Distance Control ECU)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Brake component malfunction signal • Brake control malfunction signal • Drive wheel slip signal • Cruise control cancel signal • Skid control 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	Cruise Control ECU (Distance Control ECU)	<ul style="list-style-type: none"> • +B open circuit malfunction signal • Sensor malfunction signal • Steering angle signal • Sensor zero point signal 	CAN
Yaw Rate & Deceleration Sensor	Cruise Control ECU (Distance Control ECU)	<ul style="list-style-type: none"> • Yaw rate sensor signal • Yaw rate sensor zero point error signal • Yaw rate sensor voltage signal 	CAN
ECM	Combination Meter ECU	<ul style="list-style-type: none"> • Cruise control diagnosis signal (DTC) • Preceding vehicle detection signal • Approach warning signal • Vehicle-to-vehicle distance signal • Millimeter wave radar 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 radar cruise warning signal • Cruise control vehicle speed signal 	<ul style="list-style-type: none"> • CAN • BEAN (Instrument Panel Bus)
Cruise Control ECU (Distance Control ECU)	Combination Meter ECU	<ul style="list-style-type: none"> • Millimeter wave radar sensor optical axis deviation signal • Vehicle-to-vehicle distance signal • Preceding vehicle detection signal 	<ul style="list-style-type: none"> • CAN • BEAN (Instrument Panel Bus)
Passenger Side J/B ECU	ECM	ECT SNOW mode switch signal	<ul style="list-style-type: none"> • CAN • BEAN (Instrument Panel Bus)
Rain Sensor	Cruise Control ECU (Distance Control ECU)	<ul style="list-style-type: none"> • LO operation signal • HI operation signal 	<ul style="list-style-type: none"> • CAN • BEAN (Door Bus)
Combination Switch	Cruise Control ECU (Distance Control ECU)	<ul style="list-style-type: none"> • Turn switch signal • Wiper switch position signal 	<ul style="list-style-type: none"> • CAN • BEAN (Steering Column Bus)
Steering Pad Switch (DISP 2)	ECM	Steering pad switch (DISP 2) signal	<ul style="list-style-type: none"> • CAN • BEAN (Steering Column Bus)
Luggage Room J/B ECU	<ul style="list-style-type: none"> • ECM • Cruise Control ECU (Distance Control ECU) 	Stop lamp operating condition signal	<ul style="list-style-type: none"> • CAN • BEAN (Steering Column Bus)
Seat Belt Control ECU	Combination Meter ECU	Pre-crash system error signal	<ul style="list-style-type: none"> • CAN • BEAN (Instrument Panel Bus)
Cruise Control ECU (Distance Control ECU)	Seat Belt Control ECU	<ul style="list-style-type: none"> • Vehicle-to-vehicle distance signal • Estimated vehicle speed signal • Pre-crash system monitor signal • Millimeter wave radar sensor grime signal 	CAN