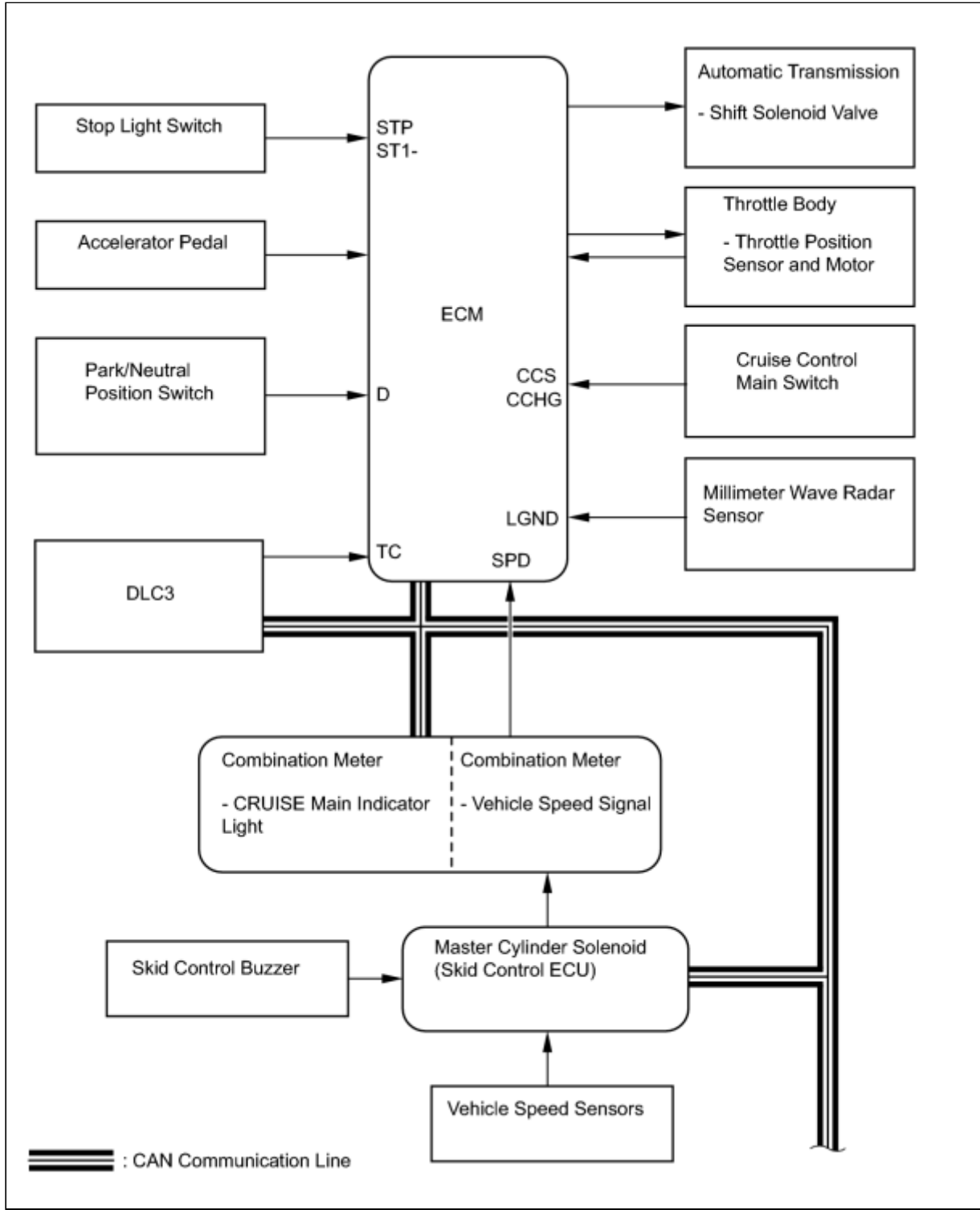
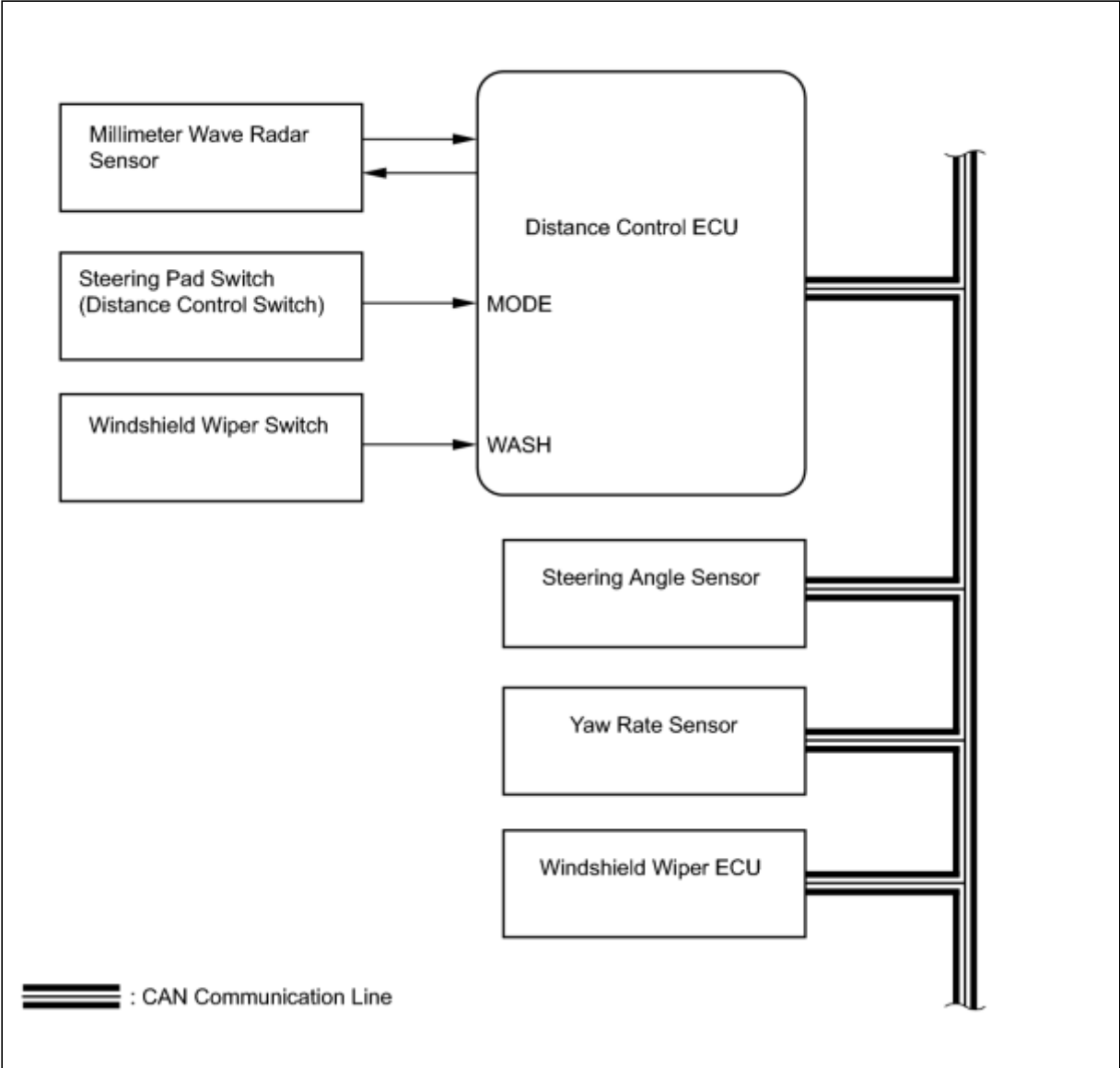


Last Modified: 11-27-2007		1.6 U
Service Category: Engine/Hybrid System	Section: Cruise Control	
Model Year: 2008	Model: LX570	Doc ID: RM000000PM202WX
Title: CRUISE CONTROL: DYNAMIC RADAR CRUISE CONTROL SYSTEM: SYSTEM DIAGRAM (2008 LX570)		

SYSTEM DIAGRAM





Communication Table

TRANSMITTER	RECEIVER	SIGNAL	COMMUNICATION LINE
ECM	Distance Control ECU	• A/T transmission signal • Cruise control operation signal • Cruise control low speed operation signal • Accelerator pedal idle signal • Set vehicle time 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	CAN

TRANSMITTER	RECEIVER	SIGNAL	COMMUNICATION LINE
		Cruise control demand opening angle signal	
Distance Control ECU	ECM	- Millimeter wave radar sensor beam axis deviation signal - Millimeter wave radar sensor malfunction signal - Millimeter wave radar sensor grime signal - Bad weather detection signal - Communication error signal (from distance control ECU to millimeter wave radar sensor) - Communication error signal (from ECM to distance control ECU) - Communication error signal (from master cylinder solenoid to distance control ECU) - Yaw rate communication error signal - Steering angle 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 - Brake control demand signal - Throttle fully closed demand signal - Approach warning signal (skid control buzzer demand signal) - Cruise target deceleration gradient signal - Vehicle-to-vehicle distance control acceleration signal	CAN
ECM	Master Cylinder Solenoid (Skid Control ECU)	- Cruise target deceleration gradient signal - Cruise target deceleration signal - Throttle fully closed demand signal - Brake control demand signal - Dynamic radar cruise control designation signal - Cruise control operation signal	CAN
Master Cylinder Solenoid (Skid Control ECU)	Distance Control ECU	- Wheel speed signal - Speed sensor power drop signal - Speed sensor condition signal - Yaw rate sensor signal	CAN

TRANSMITTER	RECEIVER	SIGNAL	COMMUNICATION LINE
		Yaw rate sensor zero point error signal	
Master Cylinder Solenoid (Skid Control ECU)	ECM	- 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 master cylinder solenoid) - Brake demand response signal - Brake control interrupting signal - Brake control operation signal	CAN
Steering Angle Sensor	Distance Control ECU	- Steering angle sensor malfunction signal - Steering angle sensor signal - Steering angle sensor zero point signal	CAN
Yaw Rate Sensor	Distance Control ECU	- Yaw rate sensor signal - Yaw rate sensor voltage signal	CAN
ECM	Combination Meter	- 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	CAN
Windshield Wiper ECU	Distance Control ECU	Wiper and washer switch signal	CAN
Distance Control ECU	Combination Meter	- Millimeter wave radar sensor beam axis deviation signal - Vehicle-to-vehicle distance signal - Preceding vehicle detection signal	CAN

