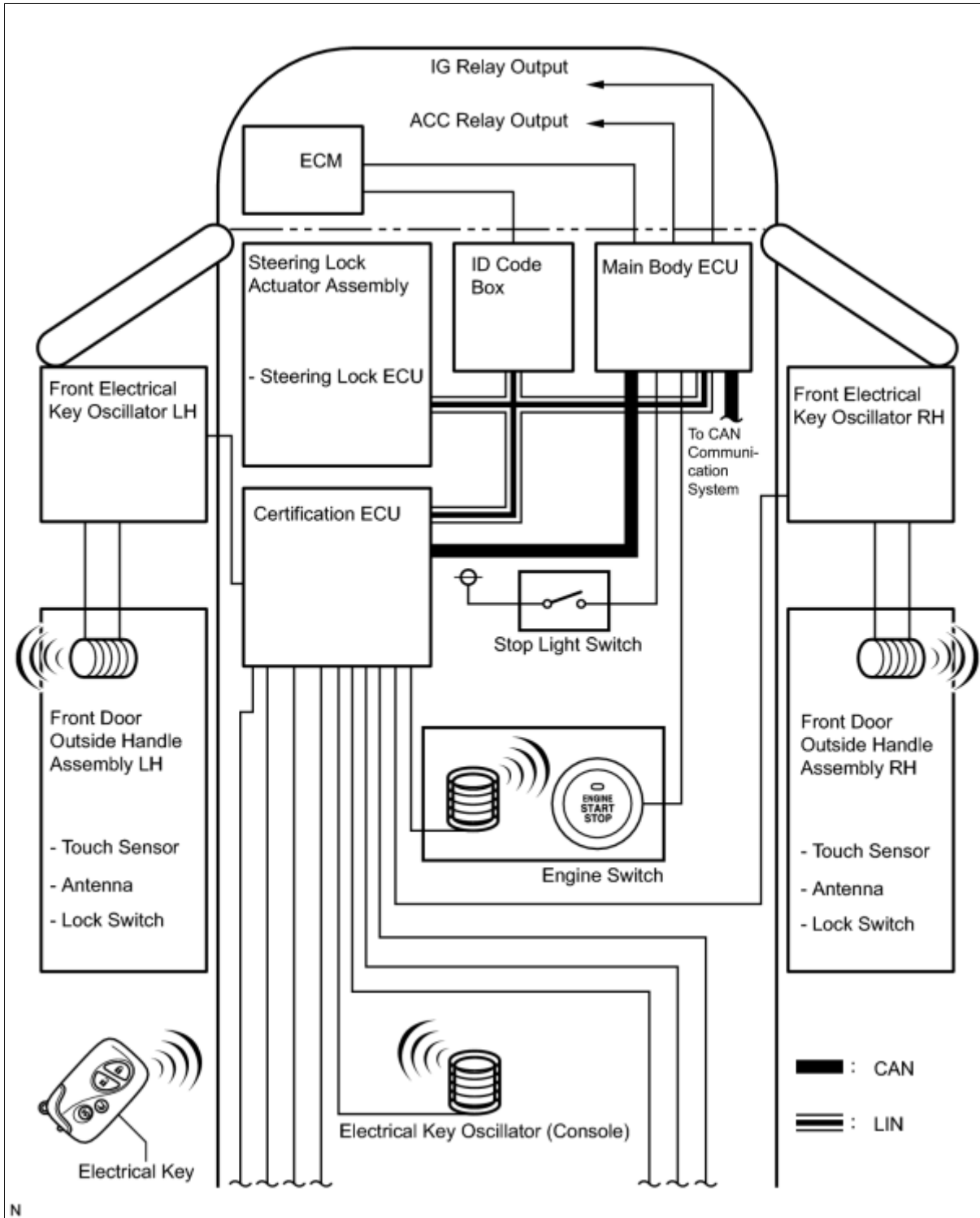
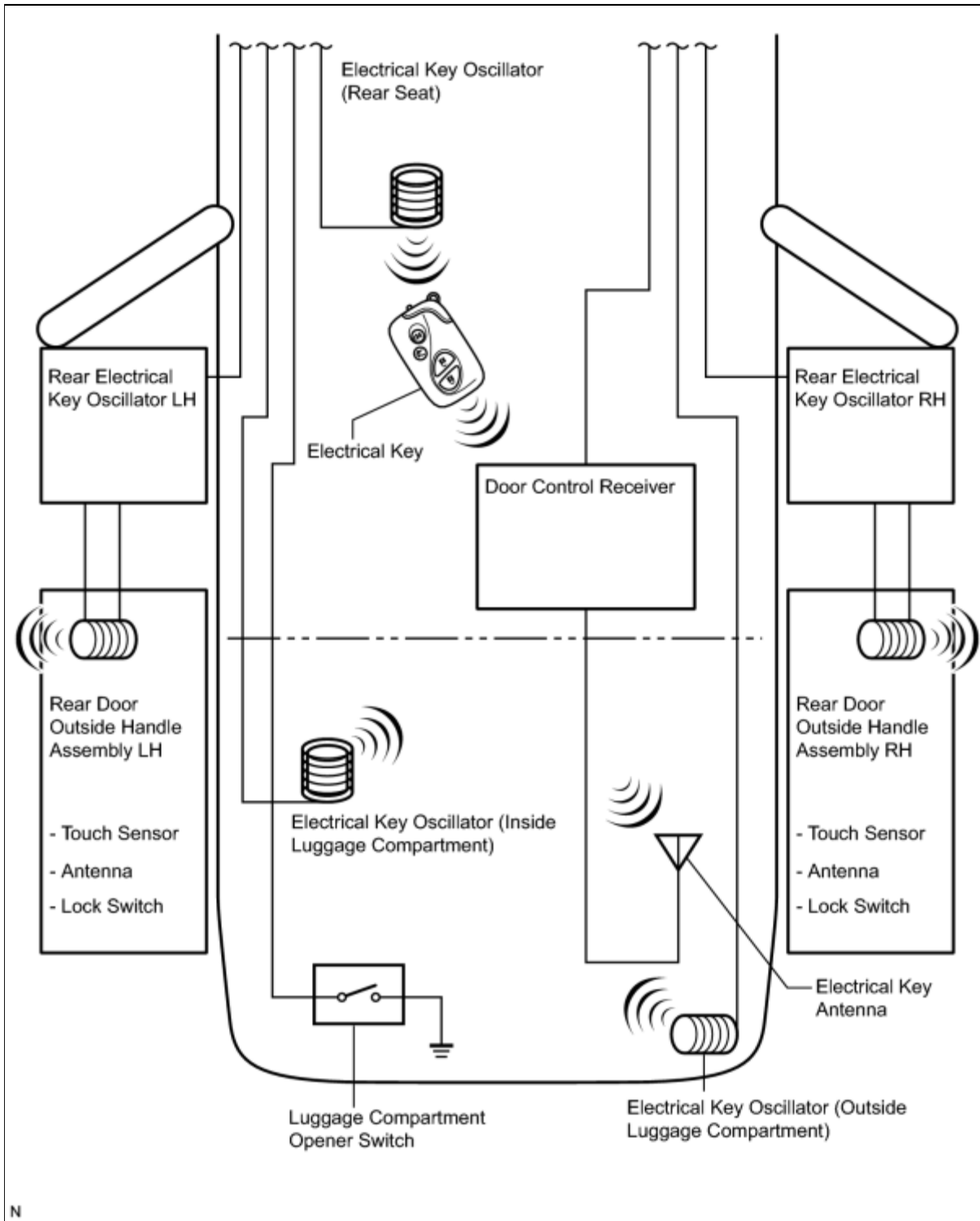


Last Modified: 7-13-2007		1.7 U
Service Category: Vehicle Interior	Section: Door Lock	
Model Year: 2008	Model: ES350	Doc ID: RM000000XUE018X
Title: DOOR LOCK: SMART ACCESS SYSTEM WITH PUSH-BUTTON START: SYSTEM DIAGRAM (2008 ES350)		

SYSTEM DIAGRAM





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TRANSMITTING ECU (TRANSMITTER)	RECEIVING ECU	SIGNALS	COMMUNICATION METHOD
Main body ECU	Certification ECU	Engine switch position signal	CAN
		Courtesy light switch signal	
		Door lock output signal	
		Luggage compartment door output request signal	
		Wireless door lock buzzer request signal	

		Door lock position switch signal	
		D/P door key operated switch signal	
		Luggage compartment door key operated switch signal	
Main body ECU	Combination meter	Wireless door lock buzzer request signal	CAN
Certification ECU	Main body ECU	Illumination light request signal	CAN
		Light answer back signal	
		Door lock/unlock request signal	
Certification ECU	Driver seat ECU	Memory call replay request signal	CAN
Certification ECU	Combination meter	Meter buzzer single-shot request signal	CAN
		Meter buzzer intermittence request signal	
		Meter buzzer continuation request signal	
		Door open display signal	
		Keyloss warning signal	
		Low key battery warning signal	
		Shift position warning signal	
		Steering lock abnormal warning	
		Steering lock unlock warning	
Combination meter	Certification ECU/Main body ECU	Vehicle speed signal	CAN
ID code box	Certification ECU	Matching request random number signal	LIN
		EEP ROM access malfunction	
		Model code matching signal	
		Model code mismatching signal	
		ECM code receiving status	
		Engine start permission request signal	
		Engine start permission response signal	
		S code matching result signal	
		S code registration status signal	
		S code registration mode signal	
		L code matching result signal	
		ECM communication signal	
		Registered key number response signal	
		Diagnosis mode switching signal	

		Registered key number signal	
Certification ECU	ID code box	3 bit code request signal	LIN
		ID code matching result signal	
		Registered key number signal	
		Vehicle type handle signal	
Certification ECU	<ul style="list-style-type: none"> • ID code box • Steering lock ECU 	L code registration mode signal	LIN
		Diagnosis mode request signal	
		DTC clear request signal	
		L code registration status signal	
Steering lock ECU	<ul style="list-style-type: none"> • Certification ECU • ID code box 	Steering lock request signal	LIN
		Steering unlock signal	
		Steering lock confirmation signal	
		Steering unlock confirmation signal	
		Diagnosis response signal	
		Steering unlock drive relay signal	
		Steering lock drive relay signal	
Steering lock motor operation signal			
Main body ECU	Certification ECU	Shift position P signal	LIN
		Engine starting status signal	
		ACC relay operating status signal	
		IG relay operating status signal	
Main body ECU	Steering lock ECU	Steering lock relay power supply status signal	LIN
Steering lock ECU	<ul style="list-style-type: none"> • Certification ECU • Main body ECU 	Steering lock catching malfunction signal	LIN
		Push button start malfunction signal	
		Engine operation signal	

