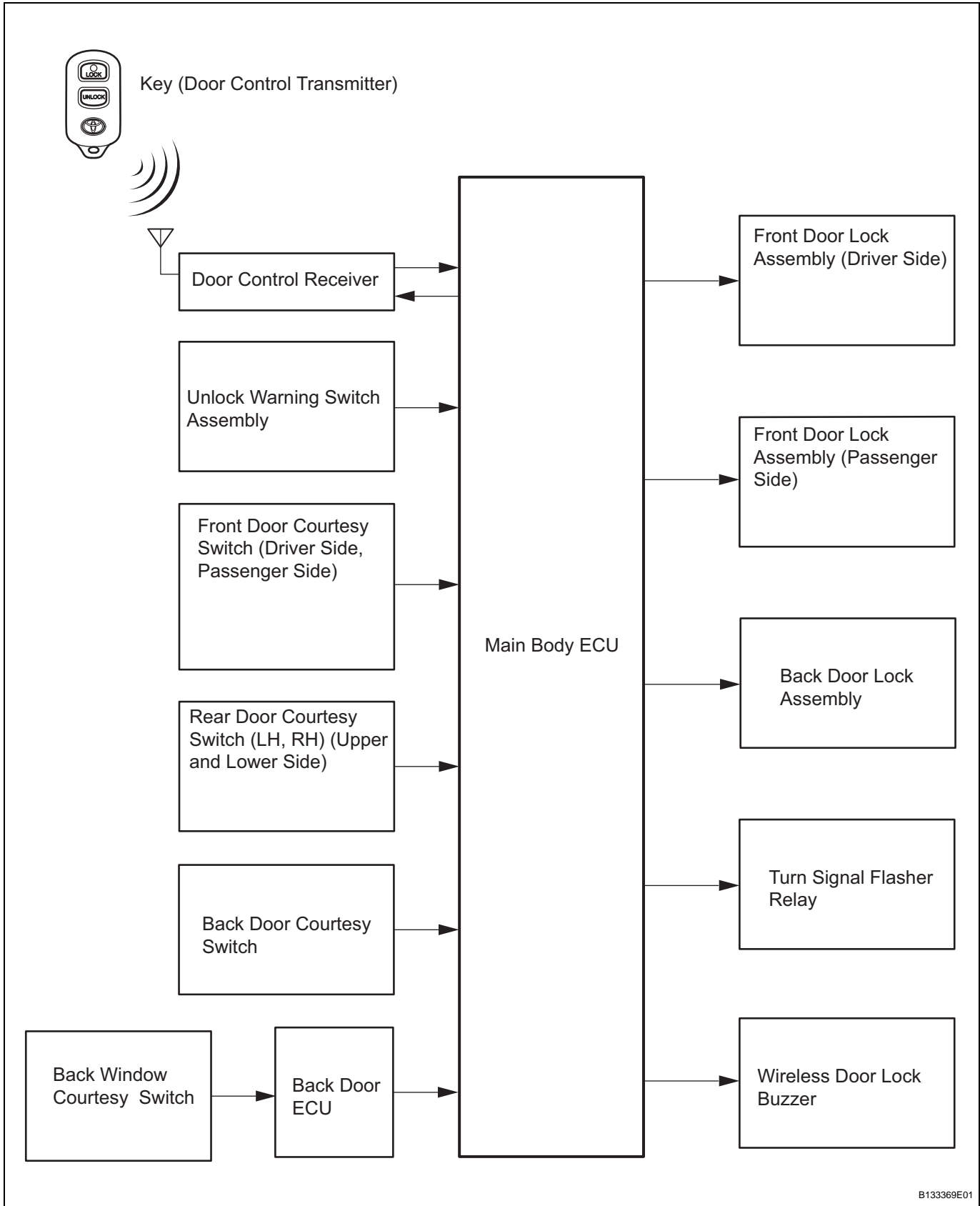


SYSTEM DIAGRAM



SYSTEM DESCRIPTION

1. WIRELESS DOOR CONTROL SYSTEM DESCRIPTION

- (a) This system locks and unlocks the vehicle's doors remotely. The wireless control system has the following features:
- The door control receiver performs the code identification procedure and the main body ECU operates the door lock control. A serial data link is provided for communication between the receiver and main body ECU.
 - A key-integrated type transmitter is used and it contains the following 3 switches: the door lock switch, door unlock switch and panic switch.

2. FUNCTION OF MAIN COMPONENTS

Components	Functions
Door control transmitter	<ul style="list-style-type: none"> • Contains LOCK and UNLOCK switches • Transmits faint electric waves (recognition codes and function codes) to door control receiver
Door control receiver	Receives weak electric waves (recognition codes and function codes) from door control transmitter, and changes waves to code data
Door lock position switch	Transmits door lock conditions of each door to main body ECU
Unlock warning switch assembly	Detects if key is in ignition key cylinder
Front door courtesy switch assembly Rear door courtesy switch assembly Back door courtesy switch assembly Back window courtesy switch assembly	Turns ON when door is open and turns OFF when door is closed. Outputs door status (open or closed) to main body ECU.

3. SYSTEM FUNCTION

- (a) Door lock / unlock function:
With no key in the ignition key cylinder (unlock warning switch is OFF) and all door courtesy switches OFF, pressing the door control transmitter's LOCK / UNLOCK switch causes the transmitter to output faint electric waves. The transmitter sends the faint electrical wave to the door control receiver. The high frequency circuit built into the door control receiver demodulates the wave into code data, computes the data, and compares the data with previously registered ID codes. If the data is verified, a door lock / unlock request signal is output to the main body ECU. When the request signal is received, the main body ECU outputs a door lock / unlock control signal to each door lock assembly. Each door lock assembly then locks / unlocks its respective door and turns ON / OFF its door lock position switch in accordance with the signal.

- (b) Answer-back function:
The main body ECU receives the door unlock detection switch's ON / OFF signals and uses these signals to confirm if the door control operation has been completed. The main body ECU then outputs the hazard warning light control signals to flash the hazard warning lights and the wireless door lock buzzer control signals to sound the wireless door lock buzzer as an answer-back indication.
- (c) The wireless door lock control system has the following functions.

Function	Outline
All door lock function	Pressing LOCK switch locks all doors
All door unlock function	Pressing 2 times UNLOCK switch unlocks all doors
Answer-back function	Hazard warning lights flash once and wireless door lock buzzer sounds once when doors are locked, and hazard warning lights flash twice and wireless door lock buzzer sounds twice when doors are unlocked to indicate that operation has been completed
Automatic locking function	If no doors are opened within 60 seconds of being unlocked by wireless transmitter, all doors are locked again automatically
Illuminated entry function	If locked doors are unlocked through wireless operation, dome light illuminate. If one of following situations occurs, lights fade out: <ul style="list-style-type: none"> • Within 15 seconds, doors are not opened and doors are locked through wireless operation • Within 15 seconds, key is inserted into ignition key cylinder and ignition switch is turned ON • No operations or actions are performed within 15 seconds
Panic alarm function	Pressing PANIC switch for more than 1 second sounds horn
Security function	Sends signal as rolling code
Transmitter recognition code registration function	Enables 4 modes for registering (writing and storing) transmitter recognition codes in EEPROM, built into door control receiver