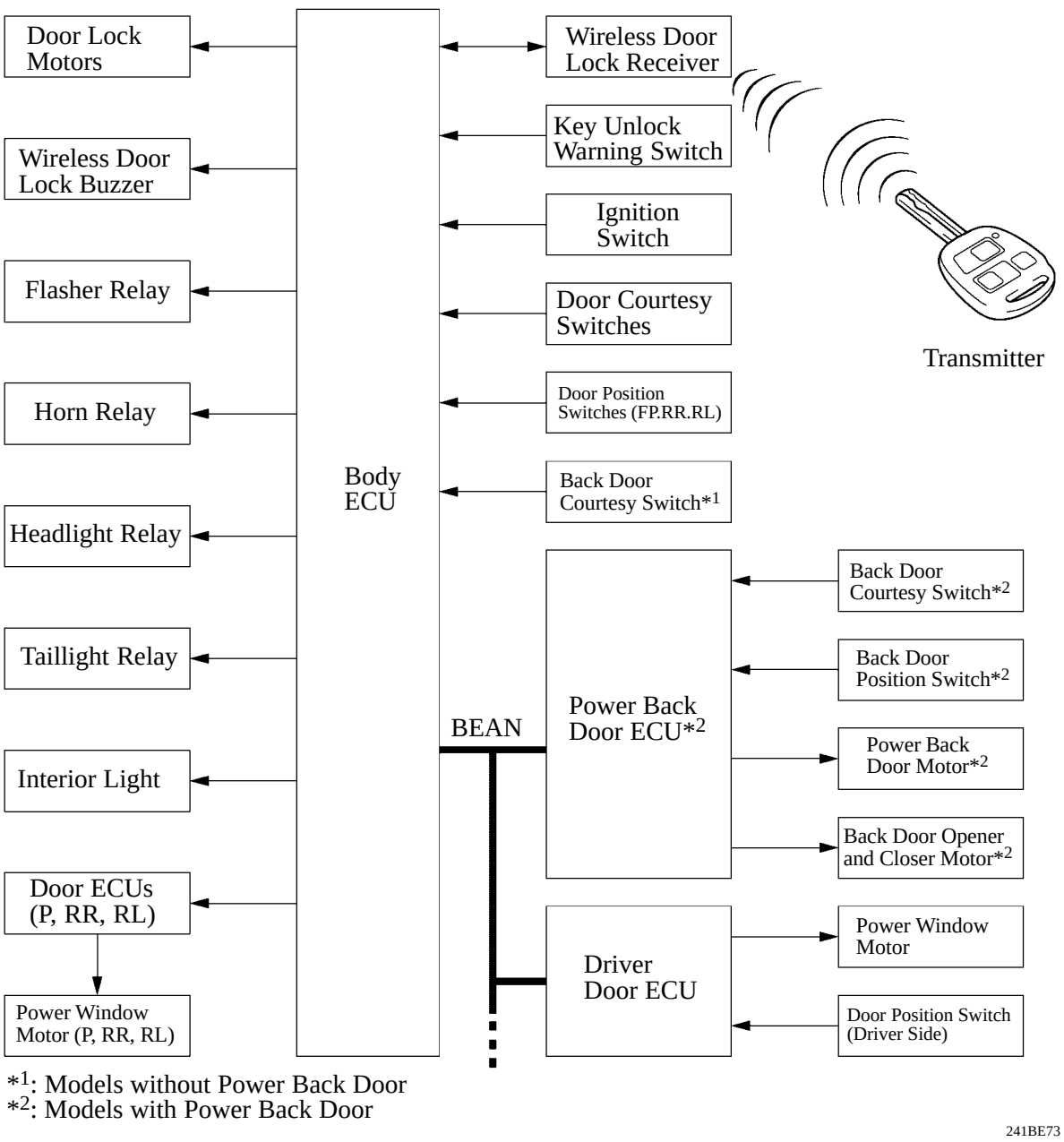
WIRELESS DOOR LOCK REMOTE CONTROL SYSTEM

■DESCRIPTION

The wireless door lock remote control system has been adopted as standard equipment.
This system is a convenient system for locking and unlocking all the doors, at a distance. This system in the '04 RX330 has the following features:

- In this system, the wireless door lock receiver performs the code identification process and the body ECU effects the door lock control. Serial data link is provided for communication between the wireless door control receiver and the body ECU.
- A key integrated type transmitter is used, and it contains the following four switches: the door lock switch, door unlock switch, panic switch (models without power back door system) and power back door switch (models with power back door system).
- A rolling code system, in which the signal configuration changes each time when a signal is transmitted by the transmitter, is used.

▶ System Diagram ◀



*1: Models without Power Back Door
*2: Models with Power Back Door

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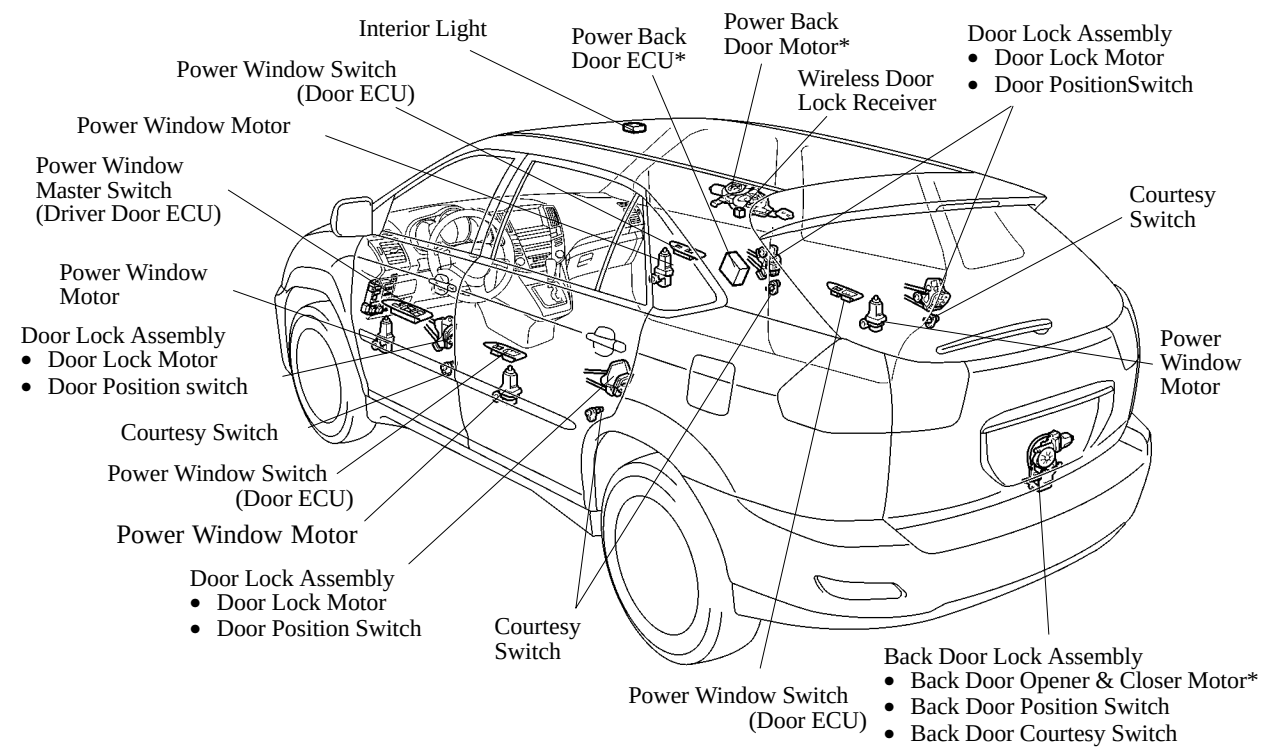
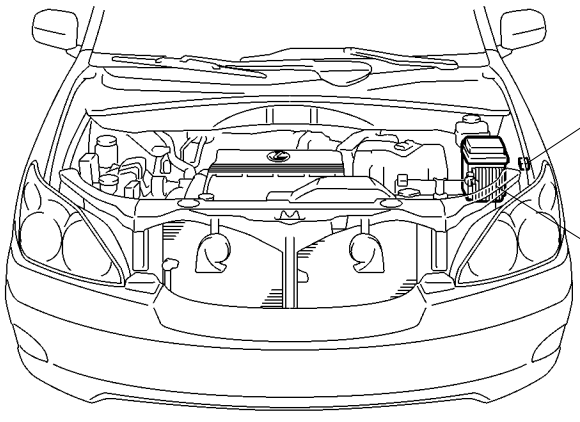
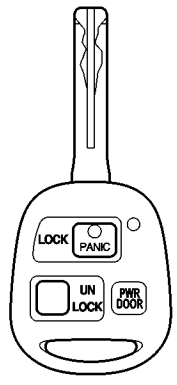
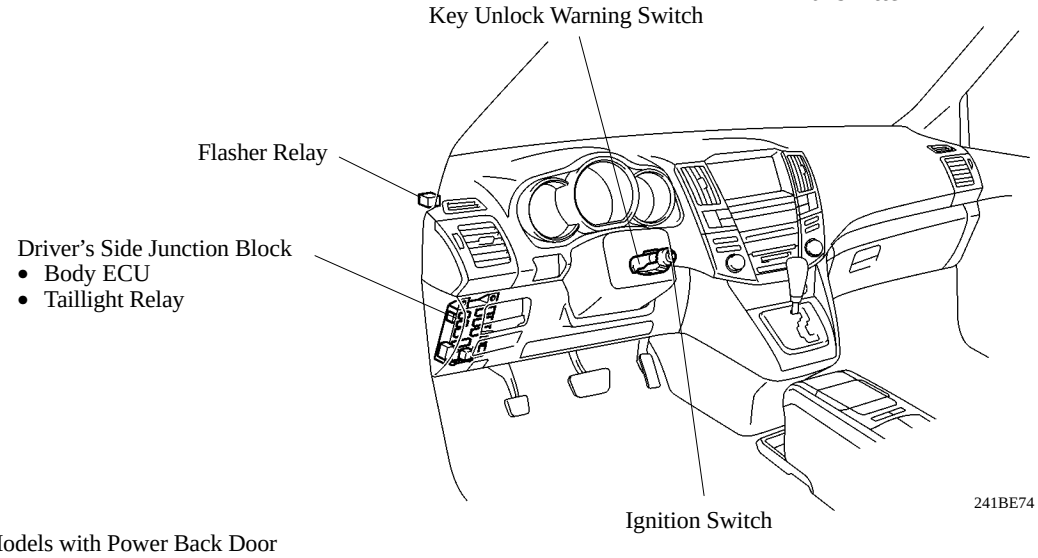
■LAYOUT OF MAIN COMPONENTS







Transmitter



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*: Models with Power Back Door

■FUNCTION

1. General

The wireless door lock remote control system in the ’04 RX330 has the following functions.

Function		Outline
All Doors Lock Operation		Pressing the door lock switch of the transmitter locks all doors.
All Doors Unlock (2-step Unlock) Operation		Pressing the door unlock switch twice within 3 seconds opens all doors after opening the driver’s door.
Power Back Door Open/Close Operation*1		Keeping the power back door switch of the transmitter pressed longer then about 1 second opens or closes the back door power window.
Power Window Open Operation		Keeping the unlock switch of the transmitter pressed longer than 2.5 seconds opens the all door power window and moon roof*2. With this function, the buzzer sounds when control is started.
Answer Back Operation		The hazard light is flashed once when locking, and the hazard light is flashed twice when unlocking, to inform that the operation has been completed.
		The wireless door lock buzzer is sound once when locking, and the wireless door lock buzzer is sound twice when unlocking, to inform that the operation has been completed.
		When the transmitter is used for opening or closing the power back door*1, or a power window is operated, this function sounds the buzzer (once/for power window, twice/for power back door) to inform the user that the operation has been completed.
Panic Alarm Operation	Models without Power Back Door	Keeping the PANIC switch of the transmitter pressed longer than about 1 second activates the alarm of the theft deterrent system (to sound the horn, flash the headlights, taillights, and hazard lights).
	Models with Power Back Door	Keeping the LOCK switch of the transmitter pressed longer than 2.5 seconds activates the alarm of the theft deterrent system (to sound the horn, flash the headlights, taillights, and hazard lights).
Automatic Lock Function		If none of the doors are opened within 30 seconds after they are unlocked by the wireless door lock remote control, all the doors are locked again automatically.
Repeat Function		If a door is not locked in response to the locking operation of the transmitter, the body ECU will output a lock signal after the 1 second.
Illuminated Entry Function		When all the doors are locked, pressing the door unlock switch causes the interior lights to illuminate simultaneously with the unlock operation.
Security Function		Sends an operation signal as a rolling code.
Door Ajar warning Function		If any door is open or ajar, pressing the “door lock” switch of the transmitter will cause the wireless door lock buzzer to sound for about 10 seconds.
Transmitter Recognition Code Registration Function		Enables the registering (writing and storing) of 4 types of transmitter recognition codes in the EEPROM that is contained in the body ECU.
Self-Diagnosis		If there is a malfunction in the system, the body ECU stores the DTCs (Diagnostic Trouble Codes) in its memory.

*1: Models with Power Back Door
*2: Models with Normal type Moon Roof System

2. Transmitter Recognition Code Registration Function

The table below shows the 4 special coded ID registration function modes through which up to 4 different codes can be registered. The codes are electronically registered (written to and stored) in the EEPROM. For details of the recognition code registration procedure, refer to the 2004 LEXUS RX330 Repair Manual (Pub. No. RM1027U) to register the codes correctly.

Mode	Function
Rewrite Mode	Erases all previously registered codes and registers only the newly received codes. This mode is used whenever a transmitter or the Body ECU is replaced.
Add Mode	Adds a newly received code while preserving any previously registered codes. This mode is used when adding a new transmitter. If the number of codes exceeds 4, the oldest registered code is erased first.
Confirm Mode	Confirms how many codes are currently registered. When adding a new code, this mode is used to check how many codes already exist.
Prohibit Mode	To delete all the registered codes and to prohibit the wireless door lock function. This mode is used when the transmitter is lost.

Service Tip

In case of making new ignition key due to the loss of it, it is necessary to register recognition code. Refer to see the 2004 LEXUS RX330 Repair Manual (Pub. No. RM1027U).