05IF8–01

SYSTEM DESCRIPTION

1. POWER DOOR LOCK CONTROL SYSTEM DESCRIPTION

The power door lock system locks/unlocks all the doors simultaneously.

The master switch and the door control switch (on the passenger side door) send lock/unlock request signals to the body ECU. Then, the body ECU sends these requests to the lock motors in each door to lock/unlock all the doors simultaneously.

Operating the driver side door lock using a key sends lock/unlock request signals to the door lock control relay. The driver side door key–linked lock function has an optional unlock method called the ”2–step unlock function”.

2. FUNCTION OF MAIN COMPONENT

Components	Function
Master switch	• Door control switch on master switch assembly locks/unlocks all doors.
Door control switch	• Door control switch on passenger door locks/unlocks all doors.
Door courtesy switch	• Placed on each door. Detects door status (open or closed) and outputs data to body ECU. Turns on when door is open and off when door is closed.
Driver door lock	• Built–in motor locks/unlocks door. • Built–in door control switch (key–linked) detects door key operation’s door status (locked or unlocked) and outputs data to body ECU. • Built–in position switch detects door status (locked or unlocked) and output data to body ECU. This switch turns off when door is locked and on when door is unlocked. • Built–in double lock motor sets/unsets double lock system. • Built–in double lock position switch detects double lock system status (set or unset) and outputs data to driver door ECU. This switch turns off when system is set and turns on when system is unset.
Passenger, RL and RR door locks	• Built–in motor locks/unlocks door. • Built–in position switch detects door status (locked or unlocked) and outputs data to body ECU. This switch turns off when door is locked and on when door is unlocked. • Built–in double lock motor sets/unsets double lock system. • Built–in double lock position switch detects double lock system status (set or unset) and outputs data to each door ECU. This switch turns off when system is set and turns on when system is unset.

3. DESCRIPTION

- This system is controlled by the body ECU. The body ECU outputs signals to each door lock motor.
- The door lock control system in the PRIUS has the following functions:

Function	Outline
Manual lock and unlock function	Locks/unlocks all doors by door control switch’s lock operation (manual operation)
Key–linked lock and unlock function*1	Linked with door key cylinder. Locks/unlocks all doors when lock/unlock operation is possible.
Key confine prevention function	When card key is inserted in card slot with driver’s door open and if you perform door lock operation, all doors will be unlocked.
Manual unlock prohibition function	Performing door lock operation with transmitter, mechanical key or smart lock function*1 disables unlock operation by door lock control switch.
Double lock system*2	• This system prevents doors from being opened through inside door knob’s operation. Doors cannot be opened either from inside or outside of vehicle. • Pressing transmitter’s LOCK switch twice within 5 seconds activates this system and locks doors.If battery of wireless remote control is deplated, only driver’s door can be opened by key. However, theft deterrent system’s alarm will sound. **CAUTION:** **Doors cannot be opened from inside of vehicle. Never activate this system when someone is inside vehicle. If this system is set accidentally, press transmitter’s UNLOCK switch.**
All doors lock with transmitter *3	Pressing transmitter’s lock switch locks all doors.
All doors unlock with transmitter *3	Pressing transmitter’s unlock switch once unlocks driver door and pressing it again within 3 seconds unlocks remaining doors.

Function	Outline
Smart unlock function *4	User can unlock all doors by keeping smart key in his/her possession and touching outside door handle.
Smart lock function *4	User can lock all doors by keeping smart key in his/her possession and pressing lock switch on outside door handle.

*1: Only for European RHD models
*2: w/ Double lock system
*3: Function can be customized.
*4: Models with smart entry system