

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 turns on when door is unlocked. |
| 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. |

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 | Linked with door key cylinder. Locks/unlocks all doors when lock/unlock operation is possible. |
| Key confine prevention function | When key is inserted in key 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. |
| 2-step unlock function*1 | Unlock only driver door by turning key cylinder once and unlock remaining doors by turning it twice. |
| All doors lock with transmitter*1 | Pressing transmitter's lock switch locks all doors. |
| All doors unlock with transmitter*1 | Pressing transmitter's unlock switch once unlocks driver door and pressing it again within 3 seconds unlocks remaining doors. |
| Smart unlock function*2 | User can unlock all doors by keeping smart key in his/her possession and touching outside door handle. |
| Smart lock function*2 | User can lock all doors by keeping smart key in his/her possession and pressing lock switch on outside door handle. |

*1: Function can be customized

*2: Models with smart entry system