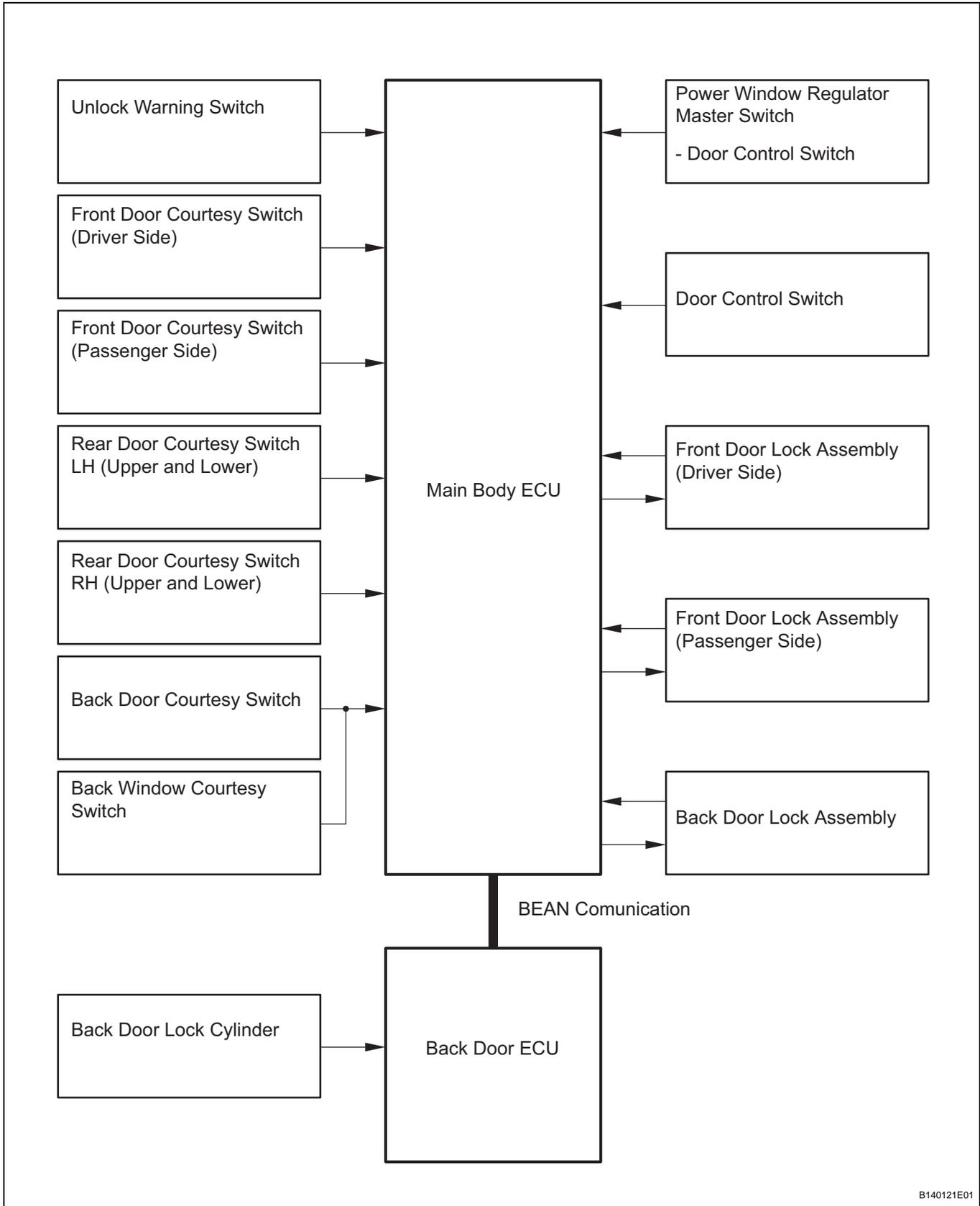


SYSTEM DIAGRAM



SYSTEM DESCRIPTION

1. POWER DOOR LOCK CONTROL SYSTEM DESCRIPTION

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

The door control switch of the power window regulator master switch or door control switch on the front passenger side sends lock / unlock request signals to the main body ECU. Then, the main body ECU sends these requests to the lock motors in each door to lock / unlock all the doors simultaneously. Operating the driver side door, front passenger side door, or back door lock using a key sends lock / unlock request signals to the main body ECU.

2. FUNCTION OF MAIN COMPONENTS

Component	Function
Power window regulator master switch (Door control switch)	Locks / unlocks all doors
Door control switch (Front passenger side)	Locks / unlocks all doors
Door courtesy switch	<ul style="list-style-type: none"> One for each door Detects door status (open or closed) and outputs data to main body ECU Turns on when door is open and off when door is closed
Driver side door lock Front passenger side door lock	<ul style="list-style-type: none"> Built-in motor locks / unlocks door Built-in door lock and unlock switch (key-linked) detects door lock status (locked or unlocked) and outputs data to main body ECU Built-in unlock detection switch detects door status (locked or unlocked) and outputs data to main body ECU. This switch turns off when door is locked and on when door is unlocked.
Back door lock	<ul style="list-style-type: none"> Built-in motor locks / unlocks door Built-in unlock detection switch detects door status (locked or unlocked) and outputs data to main body ECU. This switch turns off when door is locked and on when door is unlocked.
Back door lock cylinder	Built-in door lock and unlock switch (key-linked) detects door lock status (locked or unlocked) and outputs data to back door ECU

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3. DESCRIPTION

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

Function	Outline
Manual lock and unlock function	Locks / unlocks all doors by door control switch (for front driver door side) and door control switch (for front passenger side) lock operation (manual operation)
Key-linked lock and unlock function	Linked with key cylinder. Locks / unlocks all doors when lock / unlock operation is possible.
Key-linked 2-step unlock	Unlocks only driver door by turning key cylinder once and unlocks other doors by turning it twice.
Key lock-in prevention function	When key is inserted in ignition key cylinder and door lock operation is performed, all doors are unlocked.
All doors lock with transmitter	Pressing transmitter's LOCK switch locks all doors
All doors unlock with transmitter	Pressing transmitter's UNLOCK switch unlocks all doors