SYSTEM DIAGRAM

Instrument Panel Junction Block
- Main Body ECU

Front Door Lock LH

Power Window Regulator Master Switch
- Door Control Switch

Front Door Courtesy Light Switch LH

Unlock Warning Switch

Front Door Lock RH

Door Control Switch

Front Door Courtesy Light Switch RH

Rear Door Lock LH

Rear Door Courtesy Light Switch LH

Rear Door Lock RH

Rear Door Courtesy Light Switch RH

Back Door Lock

Back Door Courtesy Light Switch

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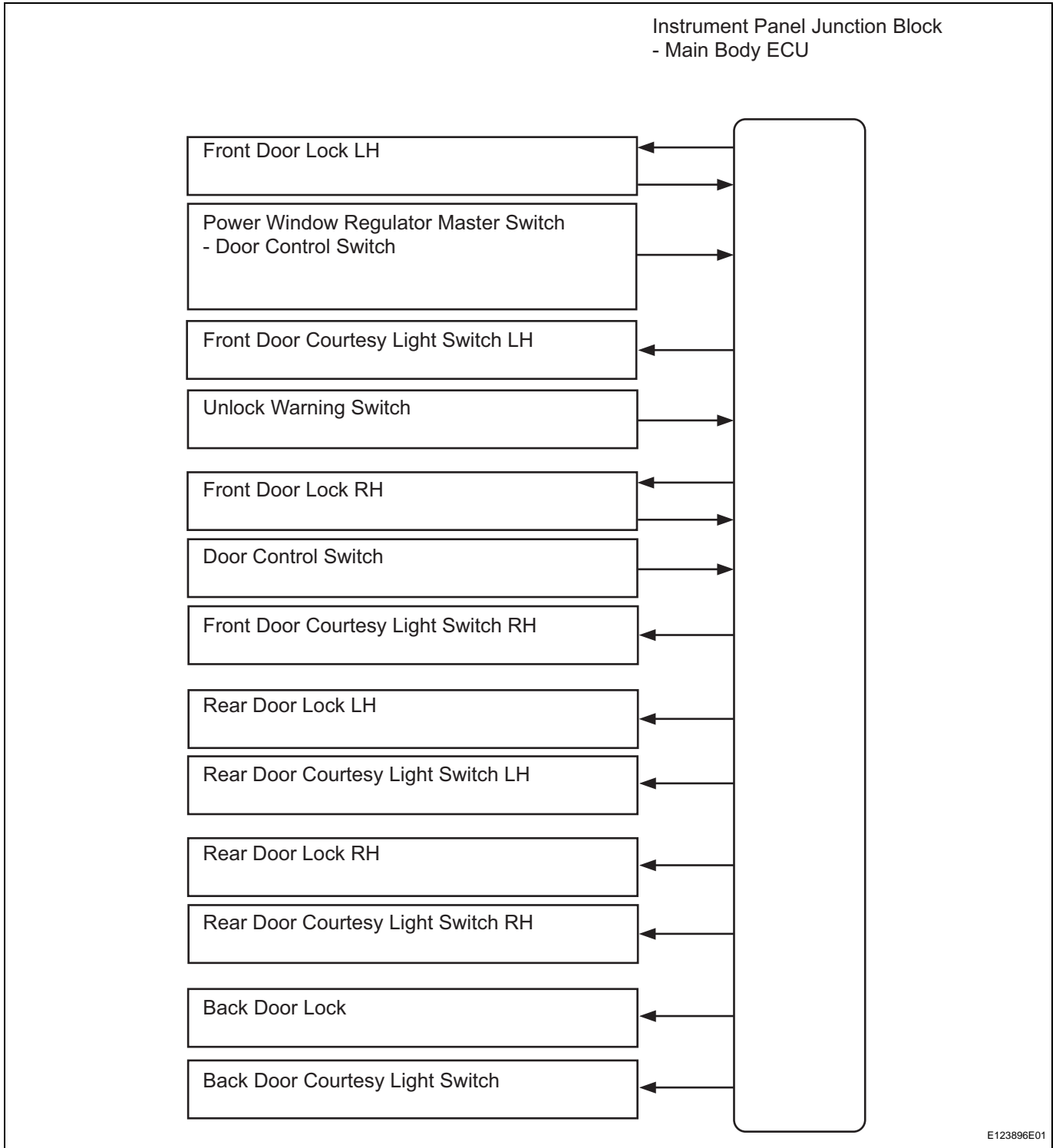
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SYSTEM DESCRIPTION

1. POWER DOOR LOCK SYSTEM DESCRIPTION

(a) The power door lock system locks / unlocks all doors with a one-touch operation.

- The door control switch of the power window regulator master switch or door control switch on 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 lock using a key sends lock / unlock request signals to the main body ECU.

2. COMPONENTS

Components	Function
Door control switch on power window regulator master switch	Locks / unlocks all doors
Door control switch	Locks / unlocks all doors
Door courtesy switch	• Placed on 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 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 main body ECU. • Built-in position 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.
• Front passenger door lock • Rear door lock LH • Rear door lock RH • Back door lock	Built-in motor locks / unlocks door.

3. FUNCTIONS

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:

Functions	Outlines
Key-linked lock and unlock function	Linked with key cylinder. Locks / unlocks all doors when lock / unlock operation is possible.
Key lock-in prevention function	When key is inserted in ignition key cylinder and door lock operation is performed, all doors are unlocked.
Manual unlock prohibition function	Performing door lock operation with transmitter or key disables unlock operation by door control switch.
2-step unlock function	Unlocks only driver door by turning key cylinder once and unlocks other doors by turning it twice.

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