

LIFTGATE OPENER SYSTEM

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Outline

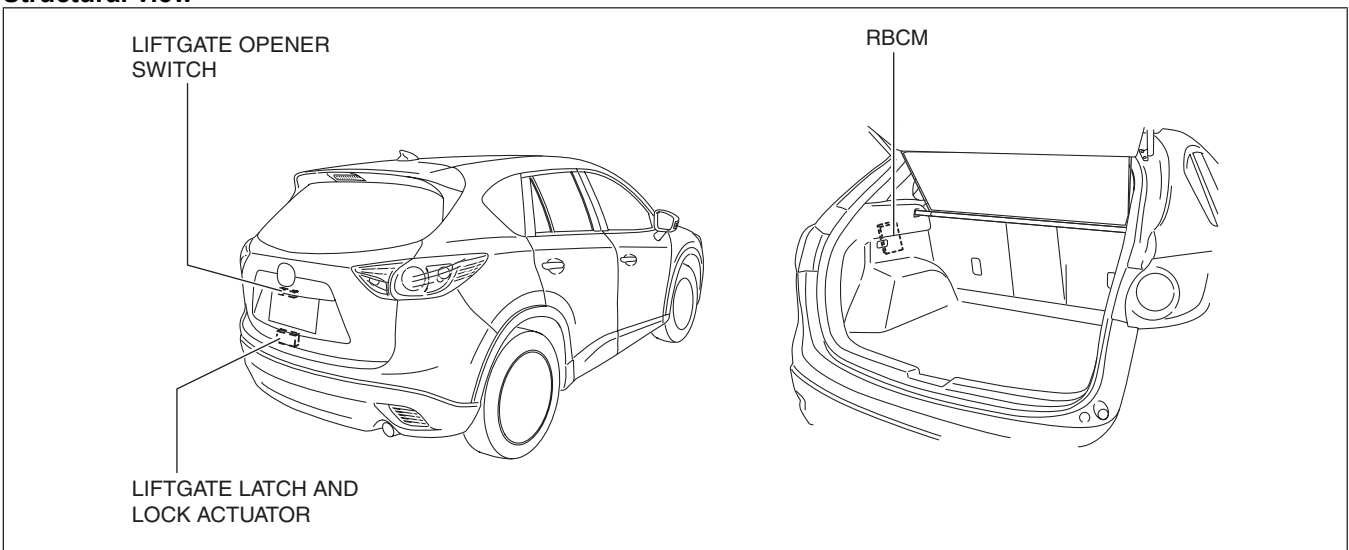
- A liftgate opener system has been adopted in which the liftgate can be opened just by pressing the liftgate opener switch.
- The rear body control module (RBCM) performs liftgate opener system fail-safe. (See REAR BODY CONTROL MODULE (RBCM).)

Function

- When the liftgate opener switch is pressed, the liftgate lock actuator operates to open the liftgate.
- The liftgate opener system is controlled based on the following CAN signals:

CAN signal sending module	Signal name
Instrument cluster	Parking brake lever status signal (MTX)
Via instrument cluster from TCM	Selector lever signal (ATX)
Via instrument cluster from PCM	Vehicle speed signal

Structural view



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Wiring diagram for the liftgate lock system. The diagram shows the power flow from B+ through fuses (ROOM 15 A, D.LOCK 25 A) to terminals 2P and 2B. Terminal 2P is connected to the RBCM and the liftgate lock actuator (4C). Terminal 2B is connected to the RBCM. The RBCM is connected to the door lock-link switch (driver's side) and the liftgate opener switch (4M). The door lock-link switch has LOCK and UNLOCK positions. The liftgate opener switch is connected to ground. The instrument cluster is connected to the RBCM via terminals 4G and 4J. The instrument cluster is also connected to the PCM and TCM via HS-CAN and MS-CAN lines.

Operation

When all of the following conditions are met, the liftgate opener system operates.

- Ignition is switched ON (engine off or on)
 - Selector lever is in P position (ATX)
 - Parking brake lever is pulled (MTX)
 - Vehicle speed is **3 km/h {2 mph} or less**
 - Driver's door is unlocked
- Ignition is switched OFF (LOCK)
 - Vehicle is stopped (no vehicle speed input)
 - Driver's door is unlocked

1. When the liftgate opener switch is pressed, it turns on (1).
2. When the operation condition of the liftgate opener system is met, the rear body control module (RCBM) turns the transistor on for **approx. 0.7 s** (2) and turns on the liftgate release relay.
3. When the liftgate release relay turns on, the liftgate lock actuator operates (3).
4. When the liftgate lock actuator operates, the latch lever is freed and the liftgate lifts up simultaneously via the spring force of the liftgate weatherstrip and stopper rubber, and opens.

