

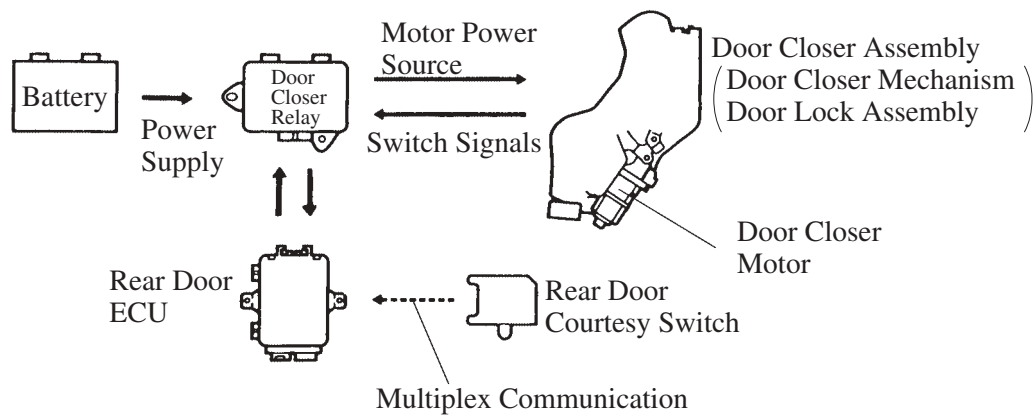
REAR DOOR CLOSER SYSTEM

1. General

The rear door closer system has the following features:

- When the rear door closer system detects that a rear door is ajar, it automatically actuates a motor to fully close the rear door.
- Position detection switches are enclosed in the door closer mechanism in each of the rear door lock assemblies to detect whether the rear doors are open, closed, or ajar. If a detection signal that indicates that a rear door is ajar is transmitted to the door closer relay, the relay actuates the operation of the door closer motor in order to fully close the rear door.

► System Diagram ◀

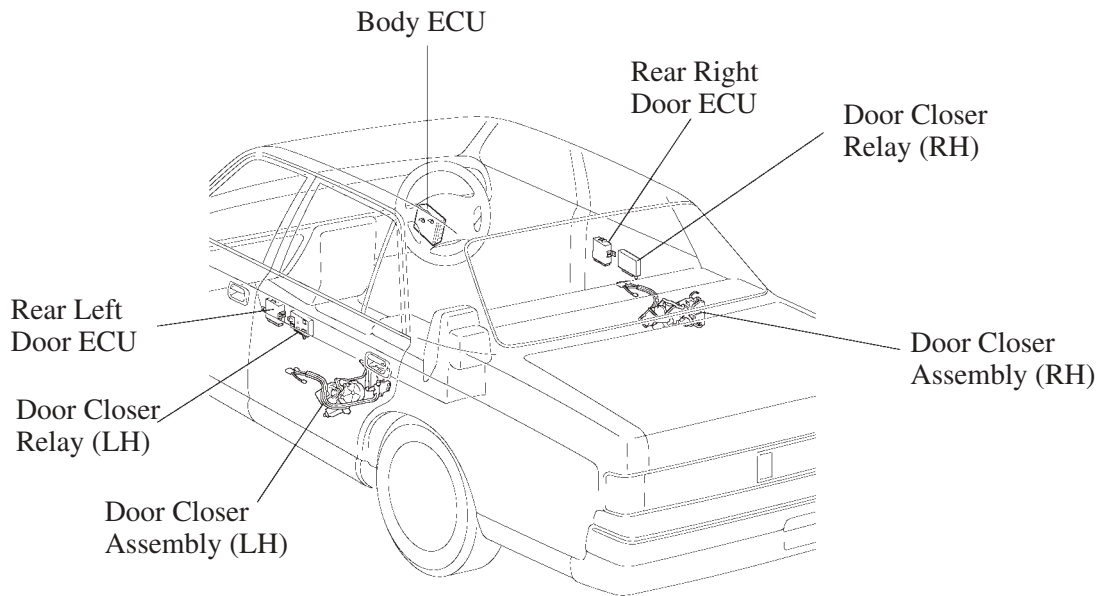


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- A mechanical cancel mechanism is provided to enable the opening of the rear doors by operating either the outside or inside door handle while the door closer system is operating. Through the function of the link and the lever that move together with the movement of the handle when either the outside or inside door handle is operated, the mechanical cancel mechanism cuts off the transmission of the power from the motor in order to disable the operation of the door closer system, thus enabling the door to be opened.
- If the operation of the door closer system is not completed within approximately 3 seconds due to the jamming of a foreign object, the door closer relay detects a malfunction and stops the current that is supplied to the motor.

2. Layout of Components

The major function parts of the rear door closer system are shown below.



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3. Construction

Door Closer Assembly

- The door closer assembly consists of a door lock mechanism and a closer mechanism. The door lock mechanism performs the operation of a normal door lock. The closer mechanism transmits the rotational movement of the door closer motor via the lever and the latch to fully close the rear door that is ajar.
- The door closer assembly contains position detection switches that detect whether the rear door is open or closed. The detection signals that are output by these switches are transmitted to the door closer relay.

Door Closer Relay

- According to the switch signals that are transmitted by the door closer assembly, the door closer relay detects whether the rear door is open or closed in order to control the door closer motor. Also, the switch signals from the door closer assembly are transmitted to the rear door ECU in the form of rear courtesy light switch signals.