

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Front Compartment Description and Operation

Front Compartment Release System Components

- Body control module
- Exterior lighting control module
- Interior rear compartment lid release switch
- Front stowage compartment cover latch release switch
- Auxiliary front stowage compartment cover latch release switch
- Front stowage compartment latch actuator
- Front stowage compartment latch actuator relay 1
- Front stowage compartment latch actuator relay 2

Front Compartment Release Operation

Interior Rear Compartment Lid Release Switch (Front Closure Release Switch)

The body control module monitors the voltage level of the interior rear compartment lid release switch signal circuit so that when the switch is pressed contacts within the switch closes providing a ground path for the interior rear compartment lid release switch signal circuit, the voltage within the signal circuit is pulled low, the body control module will detect the voltage drop, send a serial data message to the exterior lighting control module and they will energize the front stowage compartment latch actuator relay and the body control module will also energize the front stowage compartment latch actuator relay. If the content theft is armed, the body control module will ignore the request from the interior rear compartment lid release switch and if the transmission selector is not in park the vehicle body control module will ignore the request from the interior rear compartment lid release switch.

Front Stowage Compartment Cover Latch Release Switch (Front Exterior Closure Release Switch)

The body control module monitors the status of the vehicle doors, if the doors are locked the body control module will ignore the request from the front stowage compartment cover latch release switch if the doors are locked, the keyless entry transmitter is within 1 meter (3 feet) of the front of the vehicle. If the passenger doors have been commanded to unlock, pressing the front stowage compartment cover latch release switch will close contacts within the switch and provide a ground path for the front stowage compartment cover latch release switch signal circuit, the body control module will detect the voltage drop, send a serial data message to the exterior lighting control module and they will energize the front stowage compartment latch actuator relays.

Auxiliary Front Stowage Compartment Cover Latch Release Switch

This system is use as an emergency release to allow anybody trapped in the front storage compartment to escape by pressing the auxiliary front stowage compartment cover latch release switch, the latch will release the front storage compartment lid if the vehicle is below 3 kph, above that speed, if the switch is pressed, the latch will release to the ajar position and the driver information center will display the Front Access Open message.

Front Stowage Compartment Latch Actuator

Note :

Failure of the front stowage compartment to release when commanded may cause the driver information center to display **ÅçÅœHood AjarÅçÅœ**

When body control module receives a release command from the front stowage compartment cover latch release switch, the body control module applies brief pulse of voltage to the front stowage compartment latch actuator relay 1 control circuit, which energizes the coil side of the relay. The switch side of the front stowage compartment latch actuator relay 1 then momentarily closes, supplying a brief double pulse of battery positive voltage to the front stowage compartment latch actuator. The front stowage compartment latch actuator is grounded through the front stowage

compartment latch actuator relay 2, it will become energized by the exterior lighting control module providing a ground path for the front stowage compartment latch actuator and the latch will activate releasing the front stowage compartment cover so that it may be manually raised to an open position.

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