

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Luggage Compartment Description and Operation

Rear Compartment Components

- Body control module
- Liftgate latch control module
- Rear compartment lid latch
- Driver front side door window control switch
- Rear closure handle switch (part of the rear license plate lamp module)
- Interior rear compartment lid release switch
- Keyless entry transmitter (key fob)
- 15 amp fuse

Operation

The rear compartment lid can be commanded to release in the following methods:

- When the interior rear compartment lid release switch is pressed
- A when a switch is pressed on the rear license plate lamp module
- An unlatch request by a signal from the keyless entry transmitter to the keyless entry control module

Rear Compartment Description

Rear Closure Handle 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 rear closure handle switch. If the passenger doors have been commanded to unlock, pressing the rear closure handle switch will close contacts within the switch and provide a ground path for the trunk unlatch signal circuit, the body control module will detect the voltage drop and will command the liftgate latch control module to activate.

The vehicle has been equipped with the passive keyless entry system and when the keyless entry transmitter is within 3 feet (1 meter) of the rear compartment, pressing the exterior rear compartment lid unlatch switch will also function in the same manner but without unlocking the passenger doors. Refer to Keyless Entry System Description and Operation for more information on the passive keyless entry system.

Interior Rear Compartment Lid Release Switch

The driver front side door window control switch monitors the voltage level of the trunk unlatch signal circuit so that when the switch is pressed contacts within the switch closes providing a ground path for the trunk unlatch signal circuit, the voltage within the signal circuit is pulled low, the driver front side door window control switch will then send a serial data message to the body control module requesting the release of the rear compartment.

Rear Compartment Lid/Engine Compartment Cover

When body control module receives a rear compartment lid release command from either rear compartment lid unlatch switch, the body control module will send a signal command to the liftgate latch control module will activate releasing the rear compartment lid so that the rear compartment lid may be manually raised to an open position.

The rear compartment lid latch is a bi-directional motor and latch or unlatch operation is the result of the direction of the motor rotation. The liftgate latch control module controls the rear compartment lid latch through the control circuits by supplying power and ground in the appropriate polarity.

The motor control circuits are monitored by the liftgate latch control module prior to activation for a high or low condition and during motor operation for an insufficient current flow condition. The rear closure ajar 1, rear closure ajar 2, rear closure ajar 3, and rear closure open switches are part of the rear compartment lid latch and are used by the liftgate latch control module to determine the state of the latch during the process of latching or unlatching and will send the status of the latches to the body control module which is used to determine if the liftgate is closed or ajar. Each of the latch switch signal circuits are supplied battery voltage and monitored within the liftgate latch control module. The latch switches share a common low reference circuit from the liftgate latch control module and when the switch contacts close the signal circuit goes low and the liftgate latch control module determines the switch to be active.

Rear Access Open Message

The body control module monitors the voltage level of the trunk ajar signal circuit which is normally at the system voltage when the rear compartment lid is closed. When the rear compartment lid is ajar or open, the voltage within the signal circuit will then drop to 0 volts, the body control module will then detect the voltage drop and will send a serial data message to the instrument cluster. The instrument cluster will then display the Rear Access Open message.

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