

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Power Door Latch Description and Operation

Door Latch System Components

The power door latch system consists of the following components:

- Driver door lock switch (contains lock indicator)
- Passenger door lock switch (contains lock indicator)
- Driver front side door window control switch
- Passenger front side door window switch
- Driver front side door latch
- Passenger front side door latch
- Exterior door handle switches
- Interior door handle switches
- Body control module

Driver and Passenger Door Lock Switches

The driver or passenger front side door window control switch will monitor the voltage of their respective door lock switches. When the driver or passenger door lock switch is in the open position, the voltage level in the signal circuit will be near 7 V. When the driver or passenger door lock switch is pressed to the lock position, the voltage level in the lock signal circuit will drop to 0 V and the corresponding front side door window switch will detect the voltage drop, illuminate the door lock indicators and will send a serial data message to the body control module to disable the functions of the driver and passenger exterior door handle switches. When the driver or passenger door lock switch is pressed to the unlock position, the voltage level in the unlock signal circuit will drop to 0 V and the corresponding front side door window control switch will detect the voltage drop and will send a serial data message to the body control module to restore the functions of the driver and passenger exterior door handle switches. The body control module will automatically perform the lock command then the vehicle speed exceeds 3 Kph and will send a serial data message to the window switches to illuminate the lock indicators.

Interior Door Handle Operation

The interior door handle switch signal circuits provide inputs to the body control module when the interior door handle switches are activated. These inputs allow the body control module to detect a door unlatch request. The body control module provides a 7 V signal to each interior door handle switch. When a interior door handle switch is pressed, the switch closes and the voltage signal within the signal circuit is pulled to ground. The body control module will detect the voltage drop and will command the respective door to unlatch allowing the door to be pushed open.

Exterior Door Handle Operation

The exterior door handle switch signal circuits provide inputs to the body control module when the exterior door handle switches are activated. These inputs allow the body control module to detect a door unlatch request. The body control module provides a 7 V signal to each exterior door handle switch via the door handle switch signal circuits. When a door handle switch is pressed, the switch closes and the voltage signal within the signal circuit is pulled to ground. The body control module will detect the voltage drop and a low frequency antenna will transmit a challenge to the keyless entry transmitter. If the challenge is met, the keyless entry transmitter will respond, and the body control module will command the respective door to unlatch allowing the door to be pulled open.