

- SYSTEM OPERATION AND COMPONENT DESCRIPTION > POWER DOOR LOCKS

The BCM controls the door locks using a series of integrated relays (driver door unlock/passenger doors unlock/all doors lock). When the relays are not energized, ground is provided on both circuits to the lock motors. When an unlock relay energizes, voltage is provided to one side of the lock motor to unlock the door(s). When the lock relay energizes, the polarity is reversed and the motors lock the doors.

The DDM and PDM send voltage signals to the door lock control switches. When a door lock control switch is pressed, the voltage signal is routed to ground, indicating a request to lock/unlock the doors. When the DDM or PDM detects a lock or unlock request, a message is sent over the CAN to the BCM to lock or unlock the doors.

In the event of a power door lock failure, the doors can be individually locked through the manual door lock.

Based on input from the door lock control switches, the keyless entry keypad (if equipped), the passive entry system (if equipped) and the RKE transmitter, the BCM unlocks the driver door, unlocks all the doors or locks all the doors.

Switch Inhibit Feature

The switch inhibit feature prevents unauthorized access to the vehicle from the door lock control switches. The BCM disables the function of both door lock control switches 20 seconds after the vehicle is electronically locked. If any of these switches are activated while they are inhibited, a chime sounds and a message is displayed in the message center to indicate the switches are inhibited. The BCM enables the function of these switches when the vehicle is electronically unlocked.

This feature can be configured on/off through the message center.

Power Door Locking Feedback

The exterior lamps and horn provide visual and audible feedback when unlocking and locking the doors under certain circumstances. Refer to the following table:

Action	Status of Door(s)	Status of Hood	Visual/Audible Feedback
Press the lock button on the door lock control switch	Open	Closed	A short flash of the turn signals after all the doors are closed.
Press 7/8 and 9/0 on the keyless entry keypad	Closed	Closed	A short flash of the turn signals.
Press the unlock button on a RKE transmitter	Closed	Closed	A long flash of the turn signals.
Press the lock button on a RKE transmitter	Closed	Closed	A short flash of the turn signals.
Press the lock button on a RKE transmitter	Open	Closed	A short flash of the turn signals after all the doors are closed.
Press the lock button on a RKE transmitter	Closed	Open	A short flash of the turn signals after the hood is closed.
Press the lock button on a RKE transmitter twice	Closed	Closed	The horn chirps twice and the turn signals flash twice.