

211-05 Steering Wheel and Column Electrical Components Description and Operation

2019 Ranger

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Steering Wheel and Column Electrical Components - Overview

Steering Column Switches Overview

The steering column switches are located on and around the steering column. They enable the driver to control various vehicle functions while remaining focused on driving. The steering column switches consist of:

- LHD
- Left multifunction switch - mounted on the left side of the Steering Column Multifunction Switch Assembly and is used:
 - to control the turn signals, low/high beam selection and the flash-to-pass feature.
Refer to: [Exterior Lighting - System Operation and Component Description](#) (417-01 Exterior Lighting, Description and Operation).
- Right multifunction switch - mounted on the right side of the Steering Column Multifunction Switch Assembly and is used:
 - to control the front windshield wipers/washers, and the rear window wiper/washer. The right multifunction switch can be serviced separately from the Steering Column Multifunction Switch Assembly.
Refer to: [Wipers and Washers - System Operation and Component Description](#) (501-16 Wipers and Washers, Description and Operation).
- RHD
- Right multifunction switch - mounted on the right side of the Steering Column Multifunction Switch Assembly and is used:
 - to control the turn signals, low/high beam selection and the flash-to-pass feature.
Refer to: [Exterior Lighting - System Operation and Component Description](#) (417-01 Exterior Lighting, Description and Operation).
- Left multifunction switch - mounted on the left side of the Steering Column Multifunction Switch Assembly and is used:
 - to control the front windshield wipers/washers, and the rear window wiper/washer. The right multifunction switch can be serviced separately from the Steering Column Multifunction Switch Assembly.
Refer to: [Wipers and Washers - System Operation and Component Description](#) (501-16 Wipers and Washers, Description and Operation).
- Steering wheel switches - mounted on the front of the steering wheel and can be serviced separately from the steering wheel. These are used to access settings and controls displayed in the message center or for control of the cruise control system, the audio system and the SYNC® system.
 - For the message center (left upper switch), Refer to the appropriate section in Group 413 for the procedure.
 - For the cruise control system (left lower switch), Refer to the appropriate section in Group 419 for the procedure.
 - For the audio system (right upper switch), Refer to the appropriate section in Group 415 for the procedure.
 - For the SYNC® system (right lower switch), Refer to the appropriate section in Group 415 for the procedure.

The steering column and steering wheel switches interface with other modules and components on the vehicle through the SCCM, which communicates on the High Speed Controller Area Network 2 (HS2-CAN).

Conventional Ignition Switch Overview

The conventional ignition switch is controlled by the ignition lock cylinder and key. The ignition lock cylinder and ignition switch are connected mechanically. Turning the ignition lock cylinder places the ignition switch into the desired position. The available ignition switch positions are:

- OFF
- ACC
- ON
- START

When placed in ACC or ON, the ignition switch provides voltage inputs to the BCM.

When placed in START, the ignition switch provides voltage inputs to the BCM and PCM.

Push Button Start Ignition System Overview

The push button start ignition system is used to place the ignition in the ON or OFF mode and to start or shut off the vehicle powertrain. The push button ignition switch is located to the right of the steering wheel in the instrument panel.

Steering Column Lock System Overview

The steering column lock deters vehicle theft by locking the steering column and preventing the steering wheel from being used to turn the front wheels.

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