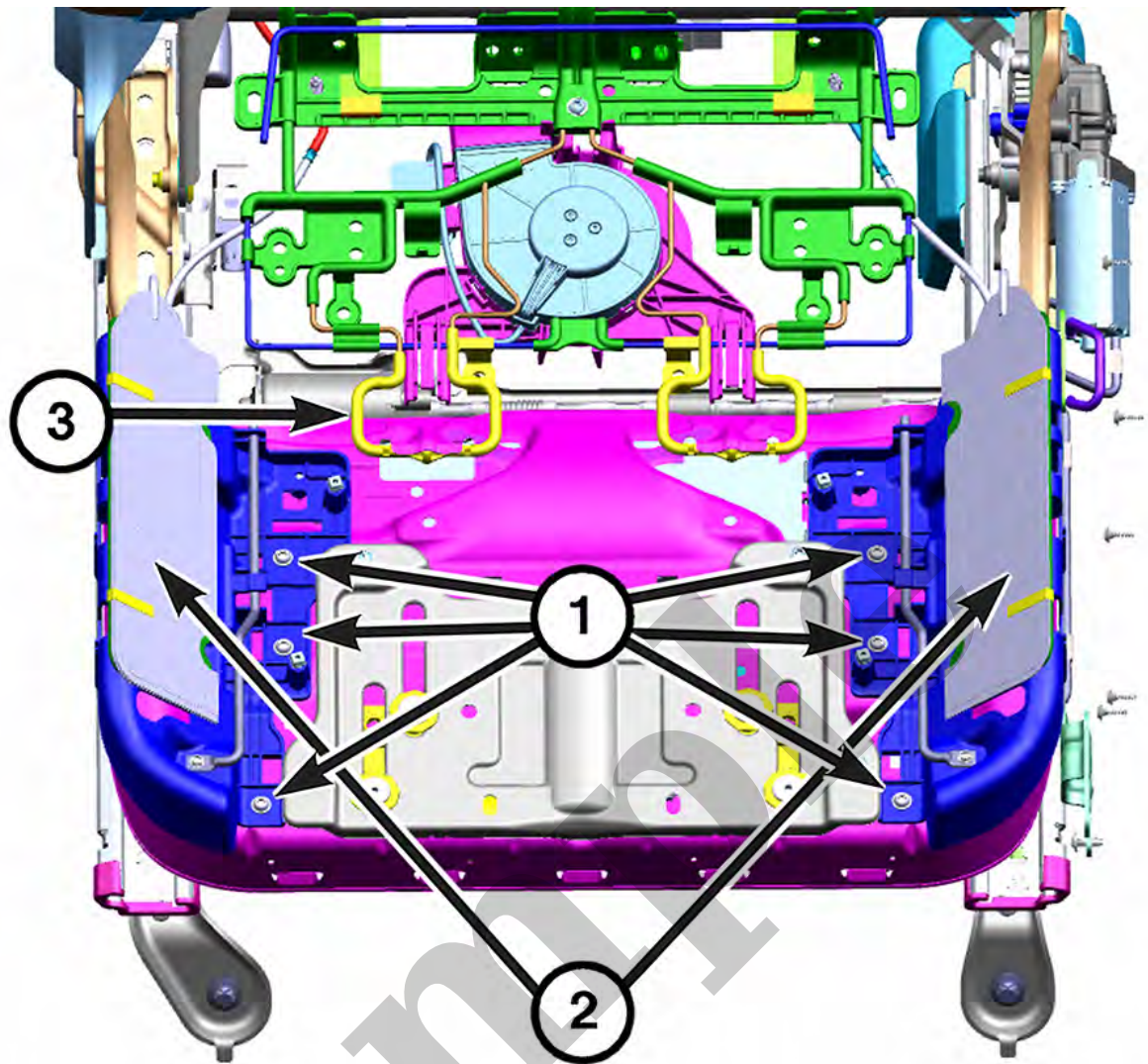


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2006 JEEP Wrangler Unlimited Rubicon OEM Service and Repair Workshop Manual

[Go to manual page](#)



2319186207

1 - Cushion Extension Mounting Retainers
2 - Cushion Bolster Air Cells
3 - Cushion Support

6. Remove the seat cushion support.

7. Remove the seat cushion extension pan to bracket mounting retainers.

Seat Fore-AFT

SEAT FORE-AFT

REMOVAL

WARNING

Disable the airbag system before attempting any component diagnosis or service of the front seats, when equipped with front seat air bags. Disconnect and isolate the negative battery (ground) cable, then wait two minutes for the airbag system capacitor to discharge before performing further diagnosis or service. This is the only sure way to disable the airbag system. Failure to follow these instructions may result in accidental airbag deployment and possible serious or fatal injury.

0:00 / 1:07

1. Remove the seat from the vehicle ([Refer to Body/Seats/SEAT/Removal and Installation](#))(Refer To List 1).
2. Remove the seat cushion ([Refer to Body/Seats/COVER, Seat Cushion, Front/Removal and Installation](#))
(Refer To List 2).

7. Re-install the rearward Fore-Aft Motor Mounting bolt before attempting to drive the rails.
8. Using one of the old drive cables and a drill set at the lowest speed, drive each seat rail to the full rearward seat position until both rails are at the full rearward stop position.
9. Remove the rearward Fore-Aft Motor mounting bolt installed for the seat rail timing procedure.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- Tighten all the bolts securely.

Refer To List:

List 1

- [23 - Body / Seats, Front / SEAT, Front / Removal and Installation](#)
- [23 - Body / Seats, Second Row / SEAT, Second Row / Removal and Installation](#)
- [23 - Body / Seats, Third Row / SEAT, Third Row / Removal and Installation](#)

List 2

- [23 - Body / Seats, Front / COVER, Seat Cushion, Front / Removal and Installation](#)
- [23 - Body / Seats, Second Row / COVER, Seat Cushion, Second Row / Removal and Installation](#)
- [23 - Body / Seats, Third Row / COVER, Seat Cushion, Third Row / Removal and Installation](#)

List 3

- [08 - Electrical / 8N - Power Systems / Power Seats / MOTOR, Seat, Cushion Extension / Removal and Installation](#)
- [08 - Electrical / 8N - Power Systems / Power Seats / MOTOR, Seat, Fore Aft / Removal and Installation](#)
- [08 - Electrical / 8N - Power Systems / Power Seats / MOTOR, Seat, Tilt / Removal and Installation](#)
- [08 - Electrical / 8N - Power Systems / Power Seats / MOTOR, Seat, Up Down / Removal and Installation](#)

Refer To List:

List 1

- [23 - Body / Seats, Front / SEAT, Front / Removal and Installation](#)
- [23 - Body / Seats, Second Row / SEAT, Second Row / Removal and Installation](#)
- [23 - Body / Seats, Third Row / SEAT, Third Row / Removal and Installation](#)

List 2

- [23 - Body / Seats, Front / COVER, Seat Cushion, Front / Removal and Installation](#)
- [23 - Body / Seats, Second Row / COVER, Seat Cushion, Second Row / Removal and Installation](#)
- [23 - Body / Seats, Third Row / COVER, Seat Cushion, Third Row / Removal and Installation](#)

Sample

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- Tighten the mounting bolts securely.

Refer To List:

List 1

- [23 - Body / Seats, Front / SEAT, Front / Removal and Installation](#)
- [23 - Body / Seats, Second Row / SEAT, Second Row / Removal and Installation](#)
- [23 - Body / Seats, Third Row / SEAT, Third Row / Removal and Installation](#)

List 2

- [23 - Body / Seats, Front / COVER, Seat Cushion, Front / Removal and Installation](#)
- [23 - Body / Seats, Second Row / COVER, Seat Cushion, Second Row / Removal and Installation](#)
- [23 - Body / Seats, Third Row / COVER, Seat Cushion, Third Row / Removal and Installation](#)

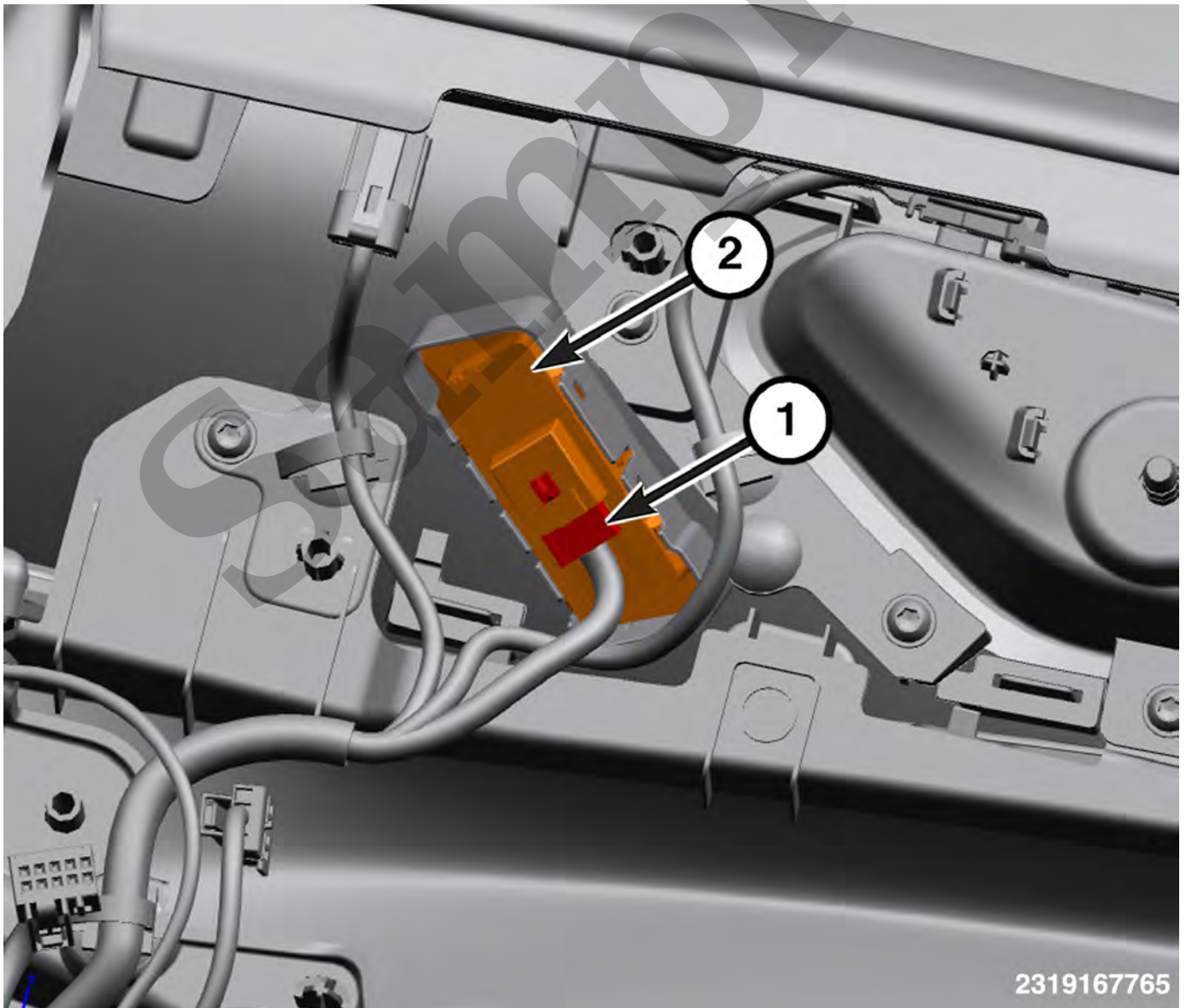
YOUR CURRENT VEHICLE

Memory Seat Switch

MEMORY SEAT SWITCH

REMOVAL

1. Remove the driver side door trim panel ([Refer to Body/Door - Front/PANEL, Door Trim/Removal and Installation](#)).



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List 1

- [23 - Body / Seats, Front / Warning](#)
- [23 - Body / Seats, Second Row / Warning](#)
- [23 - Body / Seats, Third Row / Warning](#)

List 2

- [23 - Body / Seats, Front / SIDE SHIELDS, Seat Cushion, Front / Removal and Installation](#)
- [23 - Body / Seats, Second Row / SIDE SHIELDS / Removal and Installation](#)
- [23 - Body / Seats, Third Row / SIDE SHIELDS / Removal and Installation](#)

Sample

The integrated sunroof motor electronics provide a thermal protection feature to protect the motors from overheating. If the sunroof is cycled repeatedly open/close enough to cause motor overheating the thermal protection will engage and the sunroof will stop responding to further switch inputs. Once a motor has cooled sufficiently normal operation will be automatically restored. However, the ignition switch must remain in the ON or ACCESSORY DELAY mode so that the module remains awake long enough to monitor the cool down of the motor.

The integrated sunroof motor electronics monitors glass panel and power sunshade positions by counting motor rotations through integrated hall effect sensor output. If a motor is removed and re-installed or a new service motor is installed the Initialization procedures ([Refer to Electrical/Power Top/Standard Procedure](#)) must be followed to reset and calibrate the electronics with the sunroof glass and sunshade positions.

Power Sunroof/Sunshade/Vent Switches

[Component Index](#)

A switch cluster mounted in the overhead console controls sunroof operation. The sunroof switch cluster consists of three rocker switches (Sunroof Open/Close, Vent Open/Close, Sunshade Open/Close). Pressing the sunroof switch rearward commands the sunroof open, pressing the sunroof switch forward commands the sunroof closed. Pressing the vent switch rearward commands the sunroof to vent position, pressing the vent switch forward commands the sunroof closed. Pressing the sunshade switch rearward commands the sunshade open, pressing the sunshade switch forward commands the sunshade closed. If sunroof glass and sunshade are closed and one of the sunroof open/vent switches are pressed, the system will automatically retract the sunshade to behind the front glass opening (mid-point) before opening or venting the sunroof glass pane. Therefore the sunshade can never cover the movable glass pane opening unless the pane is in the fully closed position.

The sunroof receives the following hard-wired commands from the overhead console switches:

- Sunroof Open
- Sunroof Close
- Sunroof Vent
- Sunroof Switch Return
- Sunshade Open
- Sunshade Close

The sunroof has two modes of operation, manual and express:

- **Manual mode** - This mode is active when the sunroof switch is pressed and held for a time greater than 0.8 seconds. When in manual mode the sunroof or sunshade operation will stop whenever the switch released.
- **Express mode** - This mode is active when the sunroof switch is pressed & released in a time less than 0.8 seconds. Express mode operation is a convenience feature that will automatically open or close

Power Sunroof Switch

[Component Index](#)

The sunroof has two modes of operation; manual and express. Manual mode is active when the sunroof switch is pressed and held for a time greater than 0.8 seconds. When in manual mode the sunroof or sunshade operation will stop whenever the switch released. Express mode operation is a convenience feature that will automatically open or close the sunroof when the switch is pressed & released in a time less than 0.8 seconds. Pressing any of the sunroof switches while express mode is active will immediately stop sunroof operation. The sunroof also provides an obstacle detection feature which automatically reverses the sunroof when it encounters an obstacle within the roof opening during express close operation.

A switch cluster mounted in the overhead console controls sunroof operation. The sunroof switch cluster consists of two rocker switches (Sunroof Open/Close, Vent Open/Close). Pressing the sunroof switch rearward commands the sunroof open, pressing the sunroof switch forward commands the sunroof closed. Pressing the vent switch rearward commands the sunroof to vent position, pressing the vent switch forward commands the sunroof closed. If sunroof glass and sunshade are closed and the sunroof open switch is pressed, the system will automatically drag the sunshade open with the moving glass. When the glass is in the open position it is not possible to close the sunshade; attempting to manually force the sunshade to the closed position while the glass is in a slide open position may result in damage to the sunroof system.

The chart describes the normal sunroof response to glass control switch inputs (for both Express and Manual operation) when the glass is in various positions.

	Initial Glass Position →	Glass Closed	Glass Slide Open	Glass Vented	
Glass Switch Actuation	OPEN	Glass cycles to open position	No movement	Glass first cycles closed and continues to slide open position	Sunroof Response
	VENT	Glass cycles to vent position	Glass first slides closed and continues to vent position	No movement	
	CLOSE	No movement	Glass slides to closed position	Glass cycles to the closed position	

Power Sunroof Motor with an On-Board Control Module

[Component Index](#)