

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2006 JEEP Wrangler Rubicon OEM Service and Repair Workshop Manual

[Go to manual page](#)

Automatic Door Locking:

Automatic door locking automatically locks any unlocked door when the vehicle speed exceeds a calibrated speed. Note that only the doors are considered and not the liftgate or hood.

Automatic Door Unlocking:

Automatic door unlocking automatically unlocks the doors after they were automatically locked when the vehicle speed has returned to zero, the transmission shift lever is in the **Neutral** or **Park** positions and the driver side front door is opened. Note that only the doors are considered and not the liftgate or hood.

Enhanced Accident Response System:

In the event of a vehicle impact that causes airbag deployment but leaves vehicle electrical power intact, the Enhanced Accident Response System (EARS) automatically turns off the supply of fuel to the engine, turns on the interior courtesy lamps, turns on the hazard warning flashers and unlocks the doors after the vehicle speed has returned to zero. This helps emergency responders in their efforts to render the appropriate assistance. The courtesy lamps and hazard flashers remain on as long as the battery has power or until the key is removed from the ignition.

Illuminated Entry:

Automatic illumination of the interior and exterior courtesy lamps when the vehicle is unlocked using the power lock system.

Ajar Switch

[Component Index](#)

The ajar switches for the power lock system are integral to each Vehicle Access Point (VAP) latch mechanism.

The BCM is responsible for reading the hardwired ajar signals at the various VAP and then broadcasting their status onto the vehicle CAN bus. Those signals are:

- Hood Open/Closed
- Left Front Door Open/Closed
- Left Rear Door Open/Closed
- Right Front Door Open/Closed
- Right Rear Door Open/Closed
- Liftgate Open/Closed

In order to perform a lock or unlock command, the BCM has to detect if a door, liftgate or hood is open or closed by a signal sent to the BCM by the ajar switch. When the ajar switch is open, this indicates that the VAP is physically closed. When the ajar switch reads closed, this means that the VAP is physically open.

indicators and to request the IPC do display informational messages to the customer.

Key Fob (FOBIK)

[Component Index](#)



The new FOBIK allows for the locking and unlocking of all doors and liftgate as well as activating the panic alarm from distances up to approximately 20 meters (66 feet). The key fob is equipped with an emergency key that can be released by pressing the button on the side of the key fob. The new key fob also incorporates an LED which flashes to indicate operation and RF signal transmission. On vehicle with Passive Entry anytime there is an operation of the PE the LED will flash indicating there was communication between the key and the RFH for validation.

Key Fob and Air Suspension - The vehicle can be lowered by pushing the key fob air suspension lowering button two times. When the lowering is requested, the vehicle will send a series of chirps and flashes to indicate that operation has begun and will continue these alerts until the vehicle is successfully lowered. The following conditions must be met for the vehicle to lower remotely:

- The vehicle must not already be in Entry/Exit (Park) ride height.
- The vehicle battery must be fully charged.
- All doors must be closed.
- The key fob must be out of the vehicle.

Vehicle lowering can be cancelled at any time. When cancelled, the vehicle raise up to the next defined level and lock out the remote lowering feature until the ignition is cycled. To cancel lowering, push the key fob air suspension lowering button one time during the lowering process. Once raising is completed, the horn will chirp one time. For further information on the air suspension on this vehicle, please [\(Refer to Front Suspension/Air Suspension/Description and Operation\)](#) .

- BCM encryption security authentication
- PCM encryption security authentication
- Smart Door Handle inputs
- LF antenna UHF inputs
- Remote start antenna's RF signal
- PE hard-wire smart handle state
- Uconnect® requests, authorization code and FOB number signals
- BCM vehicle specific configuration parameters
- BCM commanded ignition state
- BCM remote start active signal
- Air Suspension Control Module (ASCM) remote lowering status
- Vehicle speed from the ABS module
- Date and time inputs from the Radio

Outputs

- LF antennas for key fob challenges
- Wake key fob output
- BCM and PCM authentication challenges
- BCM for lock or unlock requests
- Requests to the BCM and IPC complaint to the customer programmable features.
- Power and ground to the door handle integrated circuit
- Random generated authentication number to the Uconnect® Radio
- Exciter signal for the PE smart handles
- PE enable signal

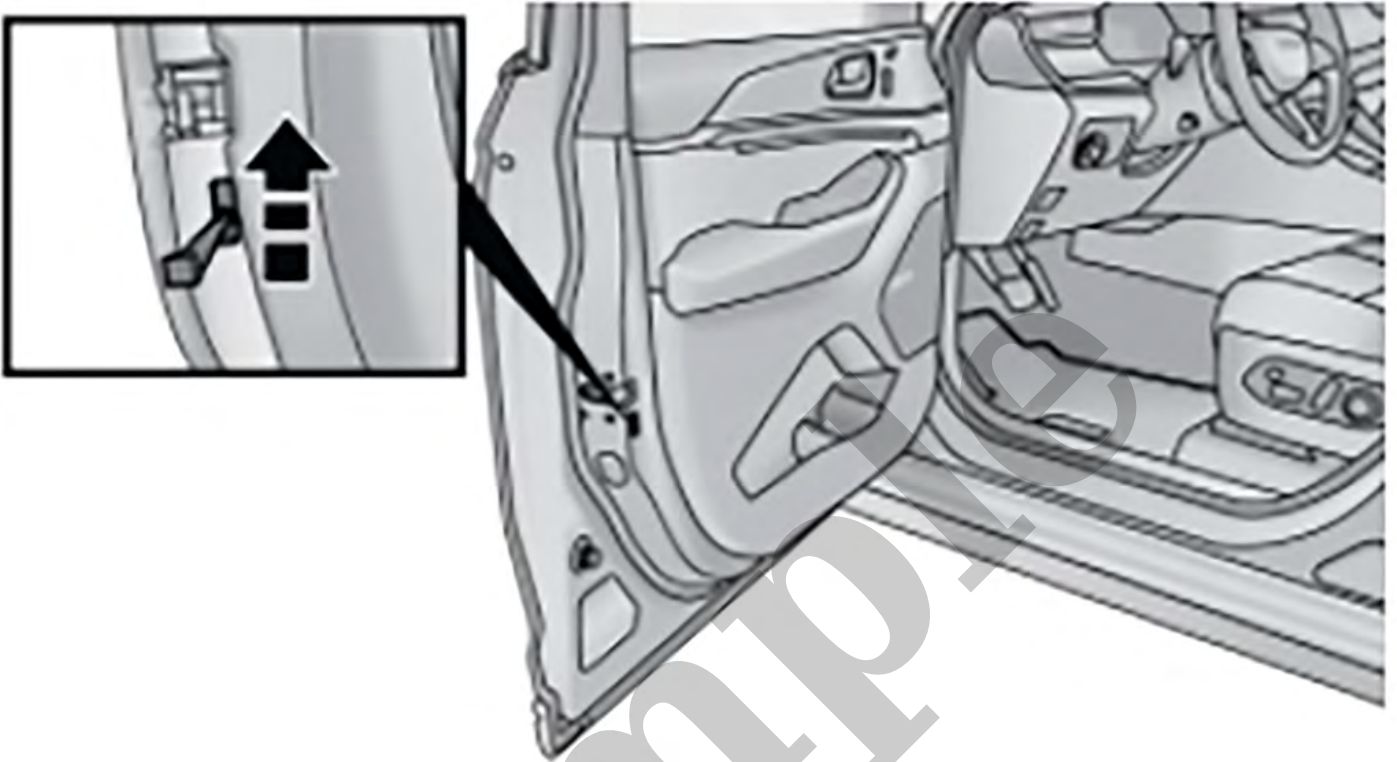
Smart Handle

[Component Index](#)



2. Confirm that the **Settings > Doors & Locks** found in the radio show the **“Flash lights with Lock”** as Checked (picture below). Once this is confirmed, attempt to lock/unlock with the RKE transmitter and look for the turn signals to flash. If the turn signals flash with a button press from the RKE transmitter, then proceed to diagnosis of the door lock switch.
3. If the power lock system functions with both power lock switches, but not with the RKE transmitter, proceed to diagnosis of the RKE system.
4. If the power lock system functions with the RKE transmitter, but not with one or both power lock switches, proceed to diagnosis of the door lock switches.
5. If only one power lock motor fails to operate with both power lock switches and the RKE transmitter, proceed to diagnosis of the power lock motor.

DIAGNOSIS AND TESTING - POWER LOCK MOTOR



2310185789

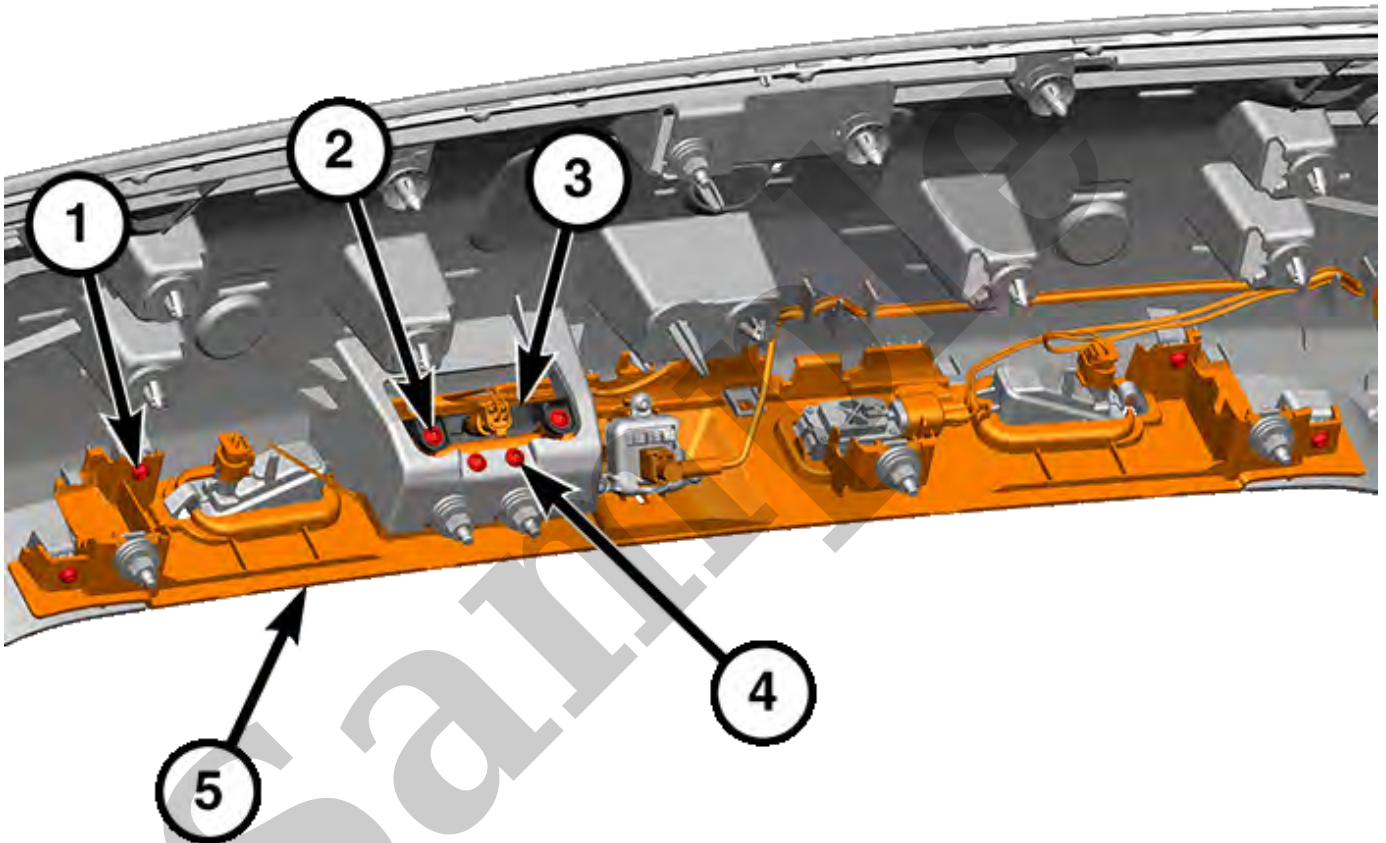
Each door can be manually locked by inserting the emergency key into the emergency lock lever and sliding the lever upward. The emergency lock lever is located on the door latch face of each door.

- The emergency lock lever is only accessible when the door is open.
- Manually locking the vehicle will not arm the Vehicle Security system.

1 - Wire Harness Connector

2 - Switch Screws

2. Disconnect the wire harness connector.



2309182734

1 - Bezel Screws

2 - Liftgate Switch Screws

3 - Liftgate Switch

4 - Bracket Screws

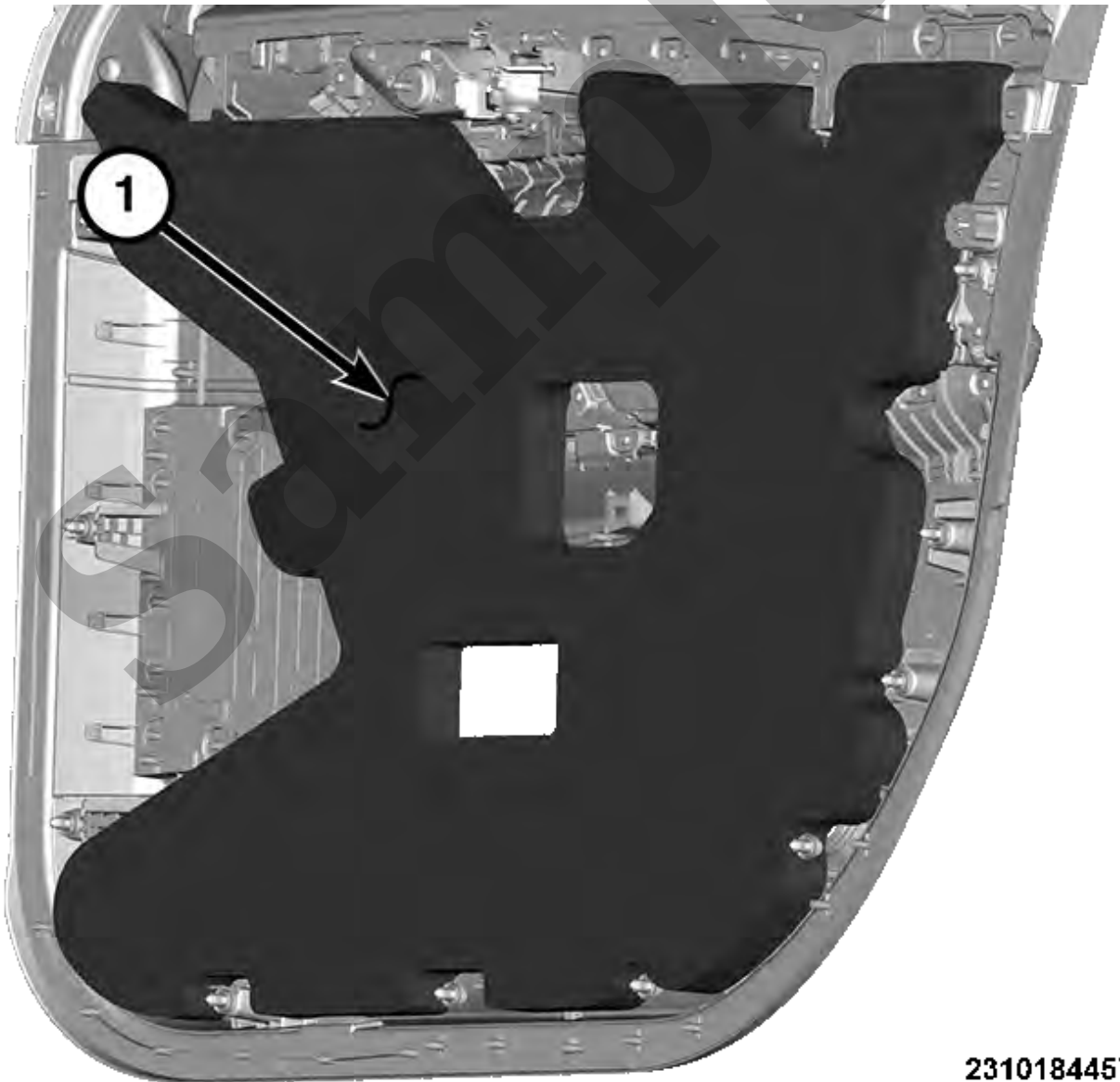
YOUR CURRENT VEHICLE

Front Door Lock Switch

FRONT DOOR LOCK SWITCH

REMOVAL

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



2310184457

REMOVAL

1. Remove the lamp bar ([Refer to Body/Decklid/Hatch/Liftgate/Tailgate/LAMP BAR, Exterior Handle/Removal and Installation](#)).
2. Disconnect the wire harness connector.
3. Release the lock tabs and remove the passive entry lock switch from the lamp bar.

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.

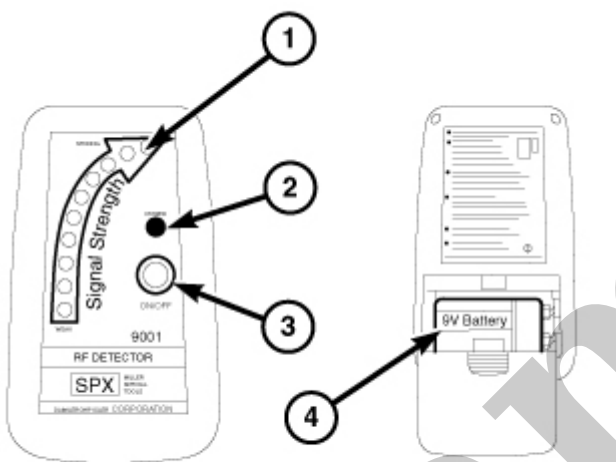
- Verify the lock tabs are fully engage.

YOUR CURRENT VEHICLE

RKE Transmitter

RKE TRANSMITTER

Radio Frequency Detector 9001



114508

Use a Radio Frequency Detector such as special tool

Rf Detector