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| **Title:** U760F AUTOMATIC TRANSMISSION / TRANSAXLE: SHIFT LOCK SYSTEM: SHIFT LOCK CONTROL; 2013 MY RAV4 [12/2012 - ] | | |

# SHIFT LOCK CONTROL

## 1. FUNCTION OF MAIN COMPONENTS

| COMPONENT | | FUNCTION |
|---|---|---|
| Shift Lock Solenoid | Shift Lock Solenoid | Locks the shift lever in P. |
| | P Detection Switch | Detects that the shift lever is in P. |
| | Shift Lock Control ECU | Controls the shift lock solenoid and the key interlock solenoid based on signals from each switch. |
| Stop Light Switch Assembly | | Detects that the brake pedal is depressed. |
| Key Interlock Solenoid* | | Disables the key to be pulled out in any position other than P. |

*: Models without smart key system

## 2. SYSTEM CONTROL

(a) The shift lock control ECU uses the P detection switch to detect the shift lever position, and receives input signals from the stop light switch assembly and ignition switch. Upon receiving these signals, the shift lock control ECU turns on the key interlock solenoid* and the shift lock solenoid in order to release the key interlock* and shift lock.

*: Models without smart key system

## 3. FUNCTION

(a) Key Interlock Mechanism (Models without Smart Key System)

(1) The key interlock mechanism prevents the key from being pulled out after the ignition switch has been turned off, unless the shift lever has been moved to P. Thus, the driver is urged to park the vehicle with the shift lever in P.

(b) Shift Lock Mechanism

(1) The shift lock mechanism prevents the shift lever from being moved to any position other than P, unless the ignition switch is ON, and the brake pedal is depressed. This mechanism helps to prevent unintentional acceleration.

(2) A shift lock release button, which manually overrides the shift lock mechanism, is used.