# 6. PROCEDURES NECESSARY WHEN ECU OR OTHER PARTS ARE REPLACED

## (a) THE WORK LIST: USA, Canada

(1) Each inspection procedure refers to the TOYOTA Repair Manual.

| Replacement Part | Necessary Procedures | Effects / Inoperative Functions when Necessary Procedures are not Performed | Notes |
|---|---|---|---|
| ● Automatic transaxle assembly<br>● Engine assembly | Reset memory | ● Large shift shock<br>● The deterioration of fuel efficiency | Using Techstream. |
| ECM | Reset memory | ● Large shift shock<br>● The deterioration of fuel efficiency | Using Techstream. |
| | ECU communication ID registration | ● Wireless door lock control system<br>● Smart key System<br>● Engine start | — |
| | Vehicle Identification Number (VIN) registration | MIL comes on | Using Techstream. |
| Tire pressure warning ECU | ● Register transmitter IDs<br>● Initialize tire pressure warning system | ● When DTC detection conditions of “transmitter ID not received” DTC are met, TPWS indicator blinks for 1 minute, and then illuminates.<br>● Tire pressure monitoring function | — |
| Tire pressure warning valve and transmitter | ● Register transmitter IDs<br>● Initialize tire pressure warning system | ● When DTC detection conditions of “transmitter ID not received” DTC are met, TPWS indicator blinks for 1 minute, and then illuminates.<br>● Tire pressure monitoring function of replaced wheel | Even if only one wheel is replaced, IDs for all 4 or 5 wheels must be registered. |
| ● Yaw rate and acceleration sensor<br>● Brake actuator | ● Clear zero point calibration data<br>● Perform yaw rate and acceleration sensor zero point calibration | ● VSC OFF indicator light blinks<br>● VSC disabled or malfunctioning | Perform yaw rate and acceleration sensor zero point calibration with the ignition switch on (engine stopped). |
| Steering lock actuator (Steering lock ECU) (*1) | ECU code registration | Engine start | — |

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|---|---|---|---|
| ● Certification ECU (*1)<br>● Electrical key transmitter (*1) | Key ID registration | ● Wireless door lock control system<br>● Smart key System<br>● Engine start | — |
| ID code box (*1) | ● ECU code registration<br>● ECU communication ID registration | ● Wireless door lock control system<br>● Smart key System<br>● Engine start | — |
| Transponder key ECU (*2) | ● Key code registration<br>● ECU communication ID registration | ● Wireless door lock control system<br>● Engine start | — |
| Door control transmitter (*2) | Key code registration | Engine start | — |
| | Refer to wireless door lock control system (w/o Smart key System) "REGISTRATION" procedures | Wireless door lock control system | — |
| Door control receiver (*2) | Refer to wireless door lock control system (w/o Smart key System) "REGISTRATION" procedures | Wireless door lock control system | — |
| ● Power window regulator motor (Driver door)<br>● Front door window regulator (Driver door) | Perform power window reset (initialization of pulse sensor) | ● Automatic door glass open/close function<br>● Jam protection function<br>● Operation function after ignition switch off<br>● Operation of each passenger window using power window switch at the driver door | Necessary when removed and installed. |
| Back door lock motor | Reset back door close position | Power back door function | — |
| ● Sliding roof drive gear (Sliding roof ECU)<br>● Sliding roof housing<br>● Sliding roof drive cable | Perform sliding roof drive gear reset | ● Automatic open/close function of roof glass<br>● Jam protection function<br>● Operation function after ignition switch off | Necessary when removed and installed (Not necessary when the sliding roof drive gear (sliding roof ECU) is removed and installed together with the sliding roof housing). |

*HINT:*
- **1: w/ Smart key System*
- **2: w/o Smart key System*

## (b) THE WORK LIST: Except USA, Canada

(1) Each inspection procedure refers to the TOYOTA Repair Manual.

| Replacement Part | Necessary Procedures | Effects/Inoperative Functions when Necessary Procedures are not Performed | Notes |
|---|---|---|---|
| ● Automatic transaxle assembly<br>● Engine assembly | Reset memory | ● Large shift shock<br>● The deterioration of fuel efficiency | Using the intelligent tester. |
| ECM | Reset memory | ● Large shift shock<br>● The deterioration of fuel efficiency | Using the intelligent tester. |
| | ECU communication ID registration | ● Wireless door lock control system<br>● Smart Entry and Start System<br>● Engine start | See the Service Bulletin for the registration method. |
| ● Yaw rate and acceleration sensor<br>● Brake actuator | ● Clear zero point calibration data<br>● Perform yaw rate and acceleration sensor zero point calibration | ● VSC OFF indicator light blinks<br>● VSC disabled or malfunctioning | Perform yaw rate and acceleration sensor zero point calibration with the ignition switch on (engine stopped). |
| Steering lock actuator (Steering lock ECU) (*1) | ECU code registration | Engine start | See the Service Bulletin for the registration method. |
| ● Certification ECU (*1)<br>● Electrical key transmitter (*1) | Key ID registration | ● Wireless door lock control system<br>● Smart Entry and Start System<br>● Engine start | See the Service Bulletin for the registration method. |
| ID code box (*1) | ● ECU code registration<br>● ECU communication ID registration | ● Wireless door lock control system<br>● Smart Entry and Start System<br>● Engine start | See the Service Bulletin for the registration method. |
| Transponder key ECU (*2) | ● Key code registration<br>● ECU communication ID registration | ● Wireless door lock control system<br>● Engine start | See the Service Bulletin for the registration method. |
| Door control transmitter (*2) | Key code registration | Engine start | See the Service Bulletin for the registration method. |
| | Refer to wireless door lock control system (w/o Smart Entry and Start System) “REGISTRATION” procedures | Wireless door lock control system | — |
| Door control receiver (*2) | Refer to wireless door lock control system (w/o Smart Entry and Start System) “REGISTRATION” procedures | Wireless door lock control system | — |

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|---|---|---|---|
| ● Power window regulator motor (Driver door)<br>● Front door window regulator (Driver door) | Perform power window reset (initialization of pulse sensor) | ● Automatic door glass open/close function<br>● Jam protection function<br>● Operation function after ignition switch off<br>● Operation of each passenger window using power window switch at the driver door | Necessary when removed and installed. |
| Steering angle sensor connector | Correction of steering angle neutral point | Parking guidance function | — |
| Television camera | Television camera optical axis (Camera position setting) | Vehicle width extension lines and expected course are deviated | — |
| Parking assist ECU (Television camera ECU) | ● Steering angle neutral point in memory<br>● Store the left and right maximum steering angles<br>● Television camera optical axis (camera position setting) | ● Parking assist function<br>● Vehicle width extension lines and expected course are deviated | — |
| Back door lock motor | Reset back door close position | Power back door function | — |
| ● Sliding roof drive gear (Sliding roof ECU)<br>● Sliding roof housing<br>● Sliding roof drive cable | Perform sliding roof drive gear reset | ● Automatic open/close function of roof glass<br>● Jam protection function<br>● Operation function after ignition switch off | Necessary when removed and installed (Not necessary when the sliding roof drive gear (sliding roof ECU) is removed and installed together with the sliding roof housing). |

*HINT:*
- **1: w/ Smart key System*
- **2: w/o Smart key System*