

9. 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 Procedure	Effect/Inoperative Function when Necessary Procedures are not Performed
Millimeter wave radar sensor assembly	Adjust millimeter wave radar sensor assembly (Dynamic radar cruise control system)	<ul style="list-style-type: none"> Dynamic radar cruise control system Pre-collision system
Lane recognition camera sensor assembly	Adjust lane recognition camera sensor assembly (Lane keeping assist system)	<ul style="list-style-type: none"> Lane keeping assist system Pre-collision system
<ul style="list-style-type: none"> Tire pressure warning ECU Tire pressure warning valve and transmitter 	Code registration (Tire pressure warning system)	<ul style="list-style-type: none"> When DTC detection conditions of "transmitter ID not received" DTC are met, TPWS indicator blinks for 1 minute, and then illuminates. Tire pressure warning function
Brake booster with master cylinder (Skid control ECU, brake actuator or pressure sensor)	<ol style="list-style-type: none"> Bleed air Clearing stored linear solenoid valve calibration data Initialization and calibration of the linear solenoid valve Yaw rate and acceleration sensor zero point calibration 	<ul style="list-style-type: none"> ABS warning light illumination Slip indicator light illumination Brake warning light/yellow (minor malfunction) illumination VSC disabled or malfunctioning
<ul style="list-style-type: none"> Brake pedal stroke sensor Brake pedal 	<ol style="list-style-type: none"> Inspection and adjustment of brake pedal height Clearing stored linear solenoid valve calibration data Initialization and calibration of the linear solenoid valve 	<ul style="list-style-type: none"> ABS warning light illumination Slip indicator light illumination Brake warning light/yellow (minor malfunction) illumination VSC disabled or malfunctioning
Yaw rate and acceleration sensor	<ol style="list-style-type: none"> Clearing zero point calibration data Yaw rate and acceleration sensor zero point calibration 	<ul style="list-style-type: none"> ABS warning light illumination Slip indicator light illumination Brake warning light/yellow (minor malfunction) illumination VSC disabled or malfunctioning
Power steering ECU *1	<ol style="list-style-type: none"> Torque sensor zero point calibration Assist map writing 	<ul style="list-style-type: none"> P/S warning light comes on EPS control
Steering column assembly (containing the torque sensor) *1	Torque sensor zero point calibration	Steering effort is different between turning steering wheel to left and right
Power steering ECU *2	Rotation angle sensor initialization and torque sensor zero point calibration	<ul style="list-style-type: none"> P/S warning light comes on EPS control
Steering column assembly *2	Rotation angle sensor initialization and torque sensor zero point calibration	Steering effort is different between turning steering wheel to left and right
Spiral with sensor cable sub-assembly	<ul style="list-style-type: none"> Correct steering angle neutral point Steering angle setting 	Advanced parking guidance system

Replacement Part	Necessary Procedure	Effect/Inoperative Function when Necessary Procedures are not Performed
Parking assist ECU	Parking assist ECU initialization	Advanced parking guidance system
Suspension, tires, etc.	Height control sensor vehicle height difference (Height set)	Advanced parking guidance system
Rear television camera	Rear television camera optical axis adjustment (Camera position setting)	Advanced parking guidance system
Rear bumper cover	Rear bumper position setting	Advanced parking guidance system
Rear height control sensor sub-assembly RH	<ul style="list-style-type: none"> Height control sensor vehicle height difference (Height set) Rear television camera optical axis adjustment Perform headlight leveling ECU initialization 	<ul style="list-style-type: none"> Advanced parking guidance system Automatic leveling function
Roof console box assembly *2	Re-registration of codes in the garage door opener system <ul style="list-style-type: none"> Register transmitter code Rolling code systems 	Garage door opener system
<ul style="list-style-type: none"> Certification ECU (smart key ECU assembly) ID code box (immobiliser code ECU) *4 Transmission control ECU assembly Key 	Code registration (Engine immobiliser system)	<ul style="list-style-type: none"> Wireless door lock control system Smart key system Engine start
<ul style="list-style-type: none"> Occupant classification ECU Front passenger seat 	<ol style="list-style-type: none"> Zero point calibration (Occupant classification system) Sensitivity check (Occupant classification system) 	<ul style="list-style-type: none"> Occupant classification system Passenger airbag ON/OFF indicator Airbag system (Front passenger side) Seat belt warning system (Front passenger side)
<ul style="list-style-type: none"> Power window regulator motor Door window regulator 	Initialize power window control system	<ul style="list-style-type: none"> Automatic door glass open/close function Jam protection function Operation function after engine switch is turned off
<ul style="list-style-type: none"> Sliding roof ECU (sliding roof drive gear sub-assembly) Sliding roof glass Sliding roof housing 	Initialize sliding roof ECU (pulse sensor initial position setting)	<ul style="list-style-type: none"> Automatic open function of sliding roof Jam protection function Operation function after power switch is turned off
Headlight leveling ECU	Perform headlight leveling ECU initialization	Automatic leveling function

*1: for Brush Type Motor

*2: for Brushless Type Motor

*3: w/ Garage Door Opener System

*4: w/ Automatic Light Control System

(b) THE WORK LIST: Except USA, Canada

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

Replacement Part	Necessary Procedure	Effect/Inoperative Function when Necessary Procedures are not Performed
Millimeter wave radar sensor assembly	Adjust millimeter wave radar sensor assembly (Dynamic radar cruise control system)	<ul style="list-style-type: none"> Dynamic radar cruise control system Pre-crash safety system
Brake booster with master cylinder (Skid control ECU, brake actuator or pressure sensor)	<ol style="list-style-type: none"> Bleed air Clearing stored linear solenoid valve calibration data Initialization and calibration of the linear solenoid valve Yaw rate and acceleration sensor zero point calibration 	<ul style="list-style-type: none"> ABS warning light illumination Slip indicator light illumination Brake warning light/yellow (minor malfunction) illumination VSC disabled or malfunctioning
<ul style="list-style-type: none"> Brake pedal stroke sensor Brake pedal 	<ol style="list-style-type: none"> Inspection and adjustment of brake pedal height Clearing stored linear solenoid valve calibration data Initialization and calibration of the linear solenoid valve 	<ul style="list-style-type: none"> ABS warning light illumination Slip indicator light illumination Brake warning light/yellow (minor malfunction) illumination VSC disabled or malfunctioning
Yaw rate and acceleration sensor	<ol style="list-style-type: none"> Clearing zero point calibration data Yaw rate and acceleration sensor zero point calibration 	<ul style="list-style-type: none"> ABS warning light illumination Slip indicator light illumination Brake warning light/yellow (minor malfunction) illumination VSC disabled or malfunctioning
Power steering ECU *2	<ol style="list-style-type: none"> Torque sensor zero point calibration Assist map writing 	<ul style="list-style-type: none"> P/S warning light comes on EPS control
Steering column assembly (containing the torque sensor) *2	Torque sensor zero point calibration	Steering effort is different between turning steering wheel to left and right
Power steering ECU *3	Rotation angle sensor initialization and torque sensor zero point calibration	<ul style="list-style-type: none"> P/S warning light comes on EPS control
Steering column assembly *3	Rotation angle sensor initialization and torque sensor zero point calibration	Steering effort is different between turning steering wheel to left and right
Spiral with sensor cable sub-assembly	<ul style="list-style-type: none"> Correct steering angle neutral point Steering angle setting 	Intelligent parking assist system
Parking assist ECU	Parking assist ECU initialization	Intelligent parking assist system
Suspension, tires, etc.	Height control sensor vehicle height difference (Height set)	Intelligent parking assist system
Rear television camera	Rear television camera optical axis adjustment (Camera position setting)	Intelligent parking assist system
Rear bumper cover	Rear bumper position setting	Intelligent parking assist system
Rear height control sensor sub-assembly RH	<ul style="list-style-type: none"> Height control sensor vehicle height difference (Height set) Rear television camera optical axis adjustment Perform headlight leveling ECU initialization 	<ul style="list-style-type: none"> Intelligent parking assist system Automatic leveling function

Replacement Part	Necessary Procedure	Effect/Inoperative Function when Necessary Procedures are not Performed
<ul style="list-style-type: none"> • Certification ECU (smart key ECU assembly) • ID code box (immobiliser code ECU) *1 • Transmission control ECU assembly • Key 	Code registration (Engine immobiliser system)	<ul style="list-style-type: none"> • Wireless door lock control system • Entry and start system • Engine start
<ul style="list-style-type: none"> • Power window regulator motor • Door window regulator 	Initialize power window control system	<ul style="list-style-type: none"> • Automatic door glass open/close function • Jam protection function • Operation function after engine switch is turned off
<ul style="list-style-type: none"> • Sliding roof ECU (sliding roof drive gear sub-assembly) • Sliding roof glass • Sliding roof housing 	Initialize sliding roof ECU (pulse sensor initial position setting)	<ul style="list-style-type: none"> • Automatic open function of sliding roof • Jam protection function • Operation function after power switch is turned off
Headlight leveling ECU	Perform headlight leveling ECU initialization	Automatic leveling function

*1: w/ Automatic light control system

*2: for Brush Type Motor

*3: for Brushless Type Motor