8. PROCEDURES NECESSARY WHEN ECU OR OTHER PARTS ARE REPLACED

(a) THE WORK LIST: USA, Canada

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

Replacement Part	Necessary Procedure	Effect/Inoperative Function When Necessary Procedure is not Performed	Note
ECM	1. Reset memory (Automatic transmission system) 2. Perform road test to allow TCM to learn (Automatic transmission system) 3. Initialize distance control ECU (Dynamic radar cruise control system)	• Large shift shock • The deterioration fo fuel efficiency • Dynamic radar cruise control system • Pre-collision system	—
	Code registration (Engine immobiliser system)	Engine start	—
	Vehicle Identification Number (VIN) registration	MIL comes on	Using the Techstream.
Engine assembly	1. Reset memory (Automatic transmission system) 2. Perform road test to allow TCM to leam (Automatic transmission system)	• Large shift shock • The deterioration of fuel efficiency	—
Distance control ECU	Initialize distance control ECU (Dynamic radar cruise control system)	• Dynamic radar cruise control system • Pre-collision system	Do not turn the headlight dimmer switch on at this time because the optical axis automatic adjustment mode has already started Otherwise, the optical axis will be set incorrectly. If the headlight dimmer switch is turned on by mistake, readjust the optical axis.
Millimeter wave radar sensor assembly	Adjust millimeter wave radar sensor assembly (Dynamic radar cruise control system)	• Dynamic radar cruise control system • Pre-collision system	—
Automatic transmission assembly	1. Set transmission compensation code (step 1) (Automatic transmission system)*1 2. Perform road test to allow TCM to learn (Automatic transmission system)	• Large shift shock • The deterioration of fuel efficiency	—
• Valve body assembly • Shift solenoid valve SL1, 2, 3, 4 and 5	Perform road test to allow TCM to learn (Automatic transmission system)	• Large shift shock • The deterioration of fuel efficiency	—
TCM (If possible, read the transmission compensation code from the previous TCM)	1. Transfer transmission compensation code (step 2) (Automatic transmission system)*2 2. Perform road test to allow TCM to learn (Automatic transmission system)	• Large shift shock • The deterioration of fuel efficiency	—

Replacement Part	Necessary Procedure	Effect/Inoperative Functions When Necessary Procedure is not Performed	Note
TCM (If impossible, read the transmission compensation code from the previous TCM)	1. Set transmission compensation code (step 1) (Automatic transmission system)*3 2. Perform road test to allow TCM to learn (Automatic transmission system)	• Large shift shock • The deterioration of fuel efficiency	—
• Tire pressure warning ECU and receiver • Tire pressure warning valve and transmitter	Code registration (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. • Tire pressure warning function	—
Skid control ECU	Perform yaw rate and acceleration sensor zero point calibration and store system information (Vehicle Stability Control system)	• Master warning light illumination • VSC warning display of multiinformation display • ABS warning light illumination • VSC disabled or malfunctioning	Perform yaw rate and acceleration sensor zero point calibration and store system information with the engine switch on (IG) (engine stopped).
• Yaw rate and acceleration sensor • Front wheel alignment adjustment	1. Clearing zero point calibration data system information (Vehicle Stability Control system) 2. Perform yaw rate and acceleration sensor zero point calibration and store system information (Vehicle Stability Control system)	• Master warning light illumination • VSC warning display of multiinformation display • ABS warning light illumination • VSC disabled or malfunctioning	Perform yaw rate and acceleration sensor zero point calibration and store system information with the engine switch on (IG) (engine stopped).
• Power steering ECU • Power steering gear assembly	Rotation angle sensor value initialization and torque sensor zero point calibration (Power steering system)	• Steering wheel off-center • Difference in amount of steering assist between left and right • DTC output • EPS control	—
• Certification ECU (smart key ECU assembly) • ID code box (immobiliser code ECU) • Steering lock ECU • Key	Code registration (Engine immobiliser system)	• Wireless door lock control system • Smart Access System • Engine start	—
Occupant classification ECU	1. Zero point calibration (Occupant system) 2. Sensitivity check (Occupant system)	• Occupant classification system • Passenger airbag ON/OFF indicator • Airbag system (Front passenger side) • Seat belt warning system (Front passenger side)	—
Seat belt control ECU	Initization (pre-collision system)	pre-collision system	—
• Multiplex network master switch assembly • Multiplex network switch assembly • Wire harness • Power window regulator • Power window motor	Reset (initialize) power window regulator motor (Power window control system)	• AUTO UP/DOWN function • Power window operation function • Transmitter-linked function • Key-linked function • Jam protection function	—

Replacement Part	Necessary Procedure	Effect/Inoperative Functions When Necessary Procedure is not Performed	Note
• Sliding roof drive gear (Sliding roof ECU) • Sliding roof housing • Sliding roof drive cable	Reset sliding roof drive gear sub-assembly (Sliding roof system)	• AUTO operation • Sliding roof operation after engine switch is turned off • Jam protection function • Transmitter-linked operation function • Key-linked operation function (Driver's door only)	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).

*1: New automatic transmission's compensation code.

*2: Read the compensation code from the previous TCM, then transfer it to the new TCM.

*3: Set the transmission compensation code of the current automatic transmission.

(b) THE WORK LIST: Except USA, Canada

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

Replacement Part	Necessary Procedure	Effect/Inoperative Function When Necessary Procedure is not Performed	Note
ECM	1. Reset memory (Automatic transmission system) 2. Perform road test to allow TCM to learn (Automatic transmission system) 3. Initialize distance control ECU (Dynamic radar cruise control system)	• Large shift shock • The deterioration of fuel efficiency • Dynamic radar cruise control system • Pre-collision system	—
	Code registration	• Engine start	See the Service Bulletin for the registration method
Engine assembly	1. Reset memory (Automatic transmission system) 2. Perform road test to allow TCM to leam (Automatic transmission system)	• Large shift shock • The deterioration of fuel efficiency	—
Distance control ECU	Initialize distance control ECU (Dynamic radar cruise control system)	• Large shift shock • The deterioration of fuel efficiency • Pre-collision system	Do not turn the headlight dimmer switch on at this time because the optical axis automatic adjustment mode has already started Otherwise, the optical axis will be set incorrectly. If the headlight dimmer switch is turned on by mistake, readjust the optical axis.
Millimeter wave radar sensor assembly	Adjust millimeter wave radar sensor assembly (Dynamic radar cruise control system)	• Dynamic radar cruise control system • Pre-collision system	—
Automatic transmission assembly	1. Set transmission compensation code (step 1) (Automatic transmission system)*1 2. Perform road test to allow TCM to learn (Automatic transmission system)	• Large shift shock • The deterioration of fuel efficiency	—

Replacement Part	Necessary Procedure	Effect/Inoperative Function When Necessary Procedure is not Performed	Note
• Valve body assembly • Shift solenoid valve SL1, 2, 3, 4 and 5	Perform road test to allow TCM to learn (Automatic transmission system)	• Large shift shock • The deterioration of fuel efficiency	—
TCM (If possible, read the transmission compensation code from the previous TCM)	1. Transfer transmission compensation code (step 2) (Automatic transmission system)*2 2. Perform road test to allow TCM to learn (Automatic transmission system)	• Large shift shock • The deterioration of fuel efficiency	—
TCM (If impossible, read the transmission compensation code from the previous TCM)	1. Set transmission compensation code (step 1) (Automatic transmission system)*3 2. Perform road test to allow TCM to learn (Automatic transmission system)	• Large shift shock • The deterioration of fuel efficiency	—
Skid control ECU	Perform yaw rate and acceleration sensor zero point calibration and store system information (Vehicle Stability Control system)	• Master warning light illumination • VSC warning display of multiinformation display • ABS warning light illumination • VSC disabled or malfunctioning	Perform yaw rate and acceleration sensor zero point calibration and store system information with the engine switch on (IG) (engine stopped).
• Yaw rate and acceleration sensor • Front wheel alignment adjustment	1. Clearing zero point calibration data system informayion (Vehicle Stability Control system) 2. Perform yaw rate and acceleration sensor zero point calibration and store system information (Vehicle Stability Control system)	• Master warning light illumination • VSC warning display of multiinformation display • ABS warning light illumination • VSC disabled or malfunctioning	Perform yaw rate and acceleration sensor zero point calibration and store system information with the engine switch on (IG) (engine stopped).
• Power steering ECU • Power steering gear assembly	Rotation angle sensor value initialization and torque sensor zero point calibration (Power steering system)	• Steering wheel off-center • Difference in amount of steering assist between left and right • DTC output • EPS control	—
• Certification ECU (smart key ECU assembly) • ID code box (immobiliser code ECU) • Steering lock ECU • Key	Code registration	• Wireless door lock control system • Entry and Start System • Engine start	See the Service Bulletin for the registration method
Seat belt control ECU	Initization (pre-collision system)	pre-collision system	—
• Multiplex network master switch assembly • Multiplex network switch assembly • Wire harness • Power window regulator motor	Reset (initialize) power window regulator motor (Power window control system)	• AUTO UP/DOWN function • Power window operation function • Transmitter-linked function • Key-linked function • Jam protection function	—

Replacement Part	Necessary Procedure	Effect/Inoperative Function When Necessary Procedure is not Performed	Note
• Sliding roof drive gear (Sliding roof ECU) • Sliding roof housing • Sliding roof drive cable	Reset sliding roof drive gear sub-assembly (Sliding roof system)	• AUTO operation • Sliding roof operation after engine switch is turned off • Jam protection function • Transmitter-linked operation function • Key-linked operation function (Driver's door only)	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).

*1: New automatic transmission's compensation code.

*2: Read the compensation code from the previous TCM, then transfer it to the new TCM.

*3: Set the transmission compensation code of the current automatic transmission.