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Model Year Start: 2023	Model: Prius	Prod Date Range: [12/2022 -]
Title: PA10/PB10/PB12 (HYBRID TRANSMISSION / TRANSAXLE): PA10 MANUAL PARKING LOCK RELEASE: OPERATION METHOD; 2023 - 2024 MY Prius [12/2022 -]		

OPERATION METHOD

CAUTION / NOTICE / HINT

The necessary procedures (adjustment, calibration, initialization or registration) that must be performed after parts are removed and installed, or replaced during manual parking lock release are shown below.

Necessary Procedures After Parts Removed/Installed/Replaced

REPLACED PART OR PERFORMED PROCEDURE	NECESSARY PROCEDURE	EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	LINK
Replacement of shift actuator ECU (Shift control actuator assembly)*	Perform actuator position learning	<ul style="list-style-type: none"> Shift position not correctly changing Shift position indicator not illuminating or displaying the incorrect drive state 	INFO

*: Even when not replacing the part, it is necessary to perform the specified necessary procedures after installation.

NOTICE:

- When disconnecting a wire harness of any component connected to the supply power of the integrated capacitor (integration control supply) or when removing the integrated capacitor (integration control supply), make sure to wait 5 minutes or more after turning the ignition switch off for self-diagnosis to complete and the voltage of the integrated capacitor (integration control supply) to discharge.
- If the shift control actuator assembly is replaced or removed, make sure to perform actuator position learning.

If not performed after replacing the shift control actuator assembly, a malfunction such as the shift position not correctly changing, the shift position indicator not illuminating or displaying the incorrect drive state, etc. may occur.

- When the shift control actuator assembly is replaced or removed, although the displayed value of Data List item "ACT Position Learning Complete Status" may be "Complete" based on information from before removal, make sure to perform actuator position learning.
- When any of the above procedures are completed, change the shift position to all positions and check the following items:
 - The shift position indicator illuminates in accordance with the current position.
 - The vehicle does not move when in shift state P (parking brake released)
 - The vehicle does not drive when in shift state N
 - The vehicle drives when in shift state D or R

HINT:

When the cable is disconnected / reconnected to the auxiliary battery terminal, systems temporarily stop operating. However, each system has a function that completes learning the first time the system is used.

Learning completes when vehicle is driven

EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Front Camera System	Drive the vehicle straight ahead at 35 km/h (22 mph) or more for 5 seconds or more.	INFO

Learning completes when vehicle is operated normally

EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Power Door Lock Control System*1 • Back door opener	Perform door unlock operation with door control switch or electrical key transmitter sub-assembly switch.	INFO
Power Back Door System*2	Reset back door close position	INFO
Air Conditioning System	After the ignition switch is turned to ON, the servo motor standard position is recognized.	-
*1: w/o Power Back Door System *2: w/ Power Back Door System		

PROCEDURE

1. SECURE VEHICLE

(a) Fully apply the parking brake and chock a wheel.

CAUTION:

- Make sure to apply the parking brake and chock a wheel before performing this procedure.
- If the vehicle is not secure and the shift lever is moved to N, the vehicle may suddenly move, possibly resulting in an accident or serious injury.



2. REMOVE AUXILIARY BATTERY

Click here [INFO](#)

3. REMOVE BATTERY CLAMP SUB-ASSEMBLY

Click here [INFO](#)

4. REMOVE SHIFT CONTROL ACTUATOR ASSEMBLY

Click here [INFO](#)

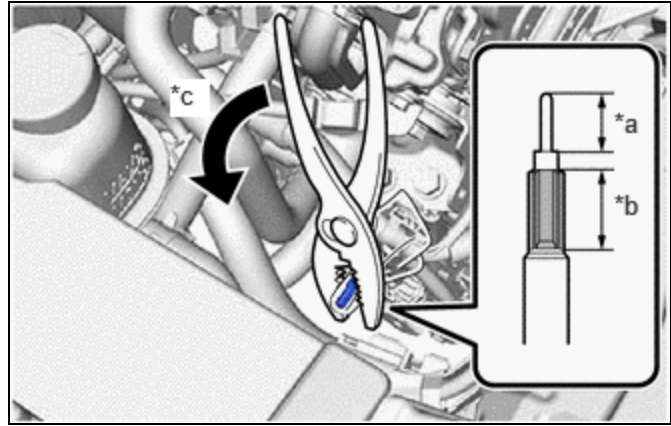
5. MANUAL PARKING LOCK RELEASE

(a) Using a pair of pliers, grip the spline portion (*b) of the parking lock shaft that has been wrapped with a cloth or other material and rotate it approximately

20° in the direction shown by the arrow in the illustration to release the parking lock.

NOTICE:

- Do not grip the 2-flats portion (*a) of the parking lock shaft.
- Make sure to use a cloth or other material to prevent damage to the spline portion (*b) of the parking lock shaft.



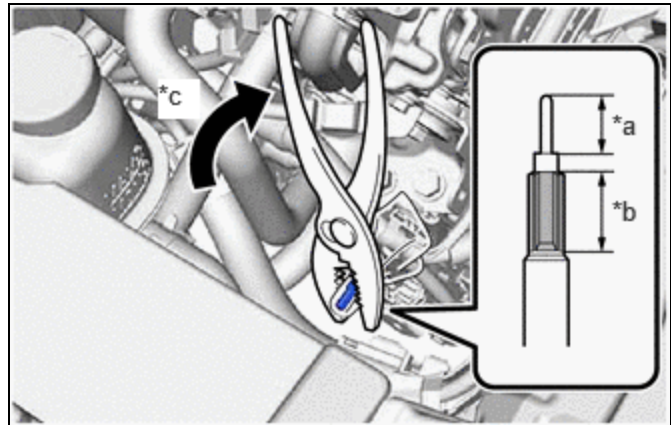
*a	2-flats Portion of Parking Lock Shaft
*b	Spline Portion of Parking Lock Shaft
*c	Rotate Approximately 20°

6. MANUAL PARKING LOCK

(a) Using a pair of pliers, grip the spline portion (*b) of the parking lock shaft that has been wrapped with a cloth or other material and rotate it approximately 20° in the direction shown by the arrow in the illustration to apply the parking lock.

NOTICE:

- Do not grip the 2-flats portion (*a) of the parking lock shaft.
- Make sure to use a cloth or other material to prevent damage to the spline portion (*b) of the parking lock shaft.



*a	2-flats Portion of Parking Lock Shaft
*b	Spline Portion of Parking Lock Shaft
*c	Rotate Approximately 20°

