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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: PA10/PB10/PB12 (HYBRID TRANSMISSION / TRANSAXLE): INPUT SHAFT OIL SEAL: REPLACEMENT; 2023 - 2024 MY Prius Prime [03/2023 -]		

REPLACEMENT

CAUTION / NOTICE / HINT

The necessary procedures (adjustment, calibration, initialization or registration) that must be performed after parts are removed and installed, or replaced during input shaft type T oil seal removal/installation 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
for 2ZR-FXE: Replacement of ECM	Update ECU security key	Vehicle Control History (RoB) are stored	INFO
	ECU configuration	-	INFO
	Perform Vehicle Identification Number (VIN) registration	DTC is output	INFO
for M20A-FXS: Replacement of ECM	Update ECU security key	Vehicle Control History (RoB) are stored	INFO
	ECU configuration	-	INFO
	Perform Vehicle Identification Number (VIN) registration	DTC is output	INFO
Replacement of inverter with converter assembly	ECU configuration	-	INFO
	Resolver learning	<ul style="list-style-type: none"> DTCs are stored Slight vibration at a vehicle speed of 5 km/h (3 mph) or less Shock or vibration during acceleration 	2ZR-FXE: INFO for M20A-FXS HEV model: INFO for M20A-FXS PHEV Model: INFO

*1: Also necessary after performing a tire rotation.

*2: It is not necessary to perform this procedure if the tire pressure warning valve and transmitters are installed to the same location.

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

*4: The vehicle height changes because of tire replacement.

*5: If matchmarks were not placed when removing parts related to steering operation, perform end position initial setting.

REPLACED PART OR PERFORMED PROCEDURE	NECESSARY PROCEDURE	EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	LINK
for PHEV Model: Service Plug Grip	High voltage fuse accumulated load history reset	DTCs are stored	INFO
for 2ZR-FXE: <ul style="list-style-type: none"> Replacement of throttle body assembly Replacement of engine assembly Gas leak from exhaust system is repaired 	Inspection after repair	<ul style="list-style-type: none"> Poor idle, etc. Engine start function, etc. 	INFO
for M20A-FXS: <ul style="list-style-type: none"> Replacement of engine assembly Gas leak from exhaust system is repaired 	Inspection after repair	<ul style="list-style-type: none"> Poor idle, etc. Engine start function, etc. 	INFO
Suspension parts	Rear television camera assembly optical axis (Back camera position setting)	Parking Assist Monitor System	INFO
	Parking assist ECU initialization	Panoramic View Monitor System	INFO
		Advanced Park	INFO
Front wheel alignment adjustment	Perform "Calibration"	<ul style="list-style-type: none"> DTCs are stored ABS warning light illuminates Brake system warning light (yellow indicator) illuminates 	INFO
<p>*1: Also necessary after performing a tire rotation.</p> <p>*2: It is not necessary to perform this procedure if the tire pressure warning valve and transmitters are installed to the same location.</p> <p>*3: Even when not replacing the part, it is necessary to perform the specified necessary procedures after installation.</p> <p>*4: The vehicle height changes because of tire replacement.</p> <p>*5: If matchmarks were not placed when removing parts related to steering operation, perform end position initial setting.</p>			

REPLACED PART OR PERFORMED PROCEDURE	NECESSARY PROCEDURE	EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	LINK
		<ul style="list-style-type: none"> Slip indicator light illuminates Electronically controlled brake system disabled or malfunctions 	
Tires	<ul style="list-style-type: none"> Initialization*1*2 Tire Position Identification*1*2 	Tire Pressure Warning System	Refer to Procedures Necessary When Replacing Parts (for Tire Pressure Warning System) table below INFO
	Rear television camera assembly optical axis (Back camera position setting)*4	Parking Assist Monitor System	INFO
	Parking assist ECU initialization*4	Panoramic View Monitor System	INFO
		Advanced Park	INFO
Replacement of front bumper assembly*3	Front television camera view adjustment	Panoramic View Monitor System	INFO
		Advanced Park	INFO
No. 2 steering intermediate shaft assembly*5	End position initial setting	-	INFO
<p>*1: Also necessary after performing a tire rotation.</p> <p>*2: It is not necessary to perform this procedure if the tire pressure warning valve and transmitters are installed to the same location.</p> <p>*3: Even when not replacing the part, it is necessary to perform the specified necessary procedures after installation.</p> <p>*4: The vehicle height changes because of tire replacement.</p> <p>*5: If matchmarks were not placed when removing parts related to steering operation, perform end position initial setting.</p>			

CAUTION:

- Orange wire harnesses and connectors indicate high-voltage circuits. To prevent electric shock, always follow



the procedure described in the repair manual.

- 2ZR-FXE:

[Click here](#) **INFO**

- for M20A-FXS HEV Model:

[Click here](#) **INFO**

- for M20A-FXS PHEV Model:

[Click here](#) **INFO**

- To prevent electric shock, wear insulated gloves when working on wire harnesses and components of the high



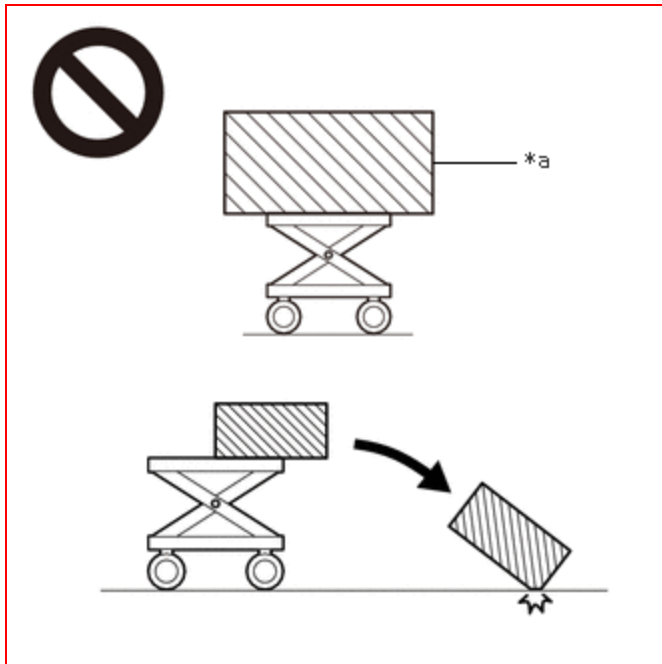
voltage system.

- To prevent burns, do not touch the engine, exhaust manifold or other high temperature components while the



engine is hot.

- The engine assembly with transaxle is very heavy. Be sure to follow the procedure described in the repair manual, or the engine lifter may suddenly drop or the engine assembly with transaxle may fall off the engine



lifter.

*a	An Object Exceeding Weight Limit of Engine Lifter
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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 <ul style="list-style-type: none"> 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	<p>for HEV Model:</p> <p>After the ignition switch is turned to ON, the servo motor standard position is recognized.</p> <p>for PHEV Model:</p> <p>After the ignition switch is turned to ON, the servo motor and expansion valve standard position is recognized.</p>	-
<p>*1: w/o Power Back Door System</p> <p>*2: w/ Power Back Door System</p>		

PROCEDURE

1. REMOVE HYBRID VEHICLE TRANSAXLE ASSEMBLY

- for PA10:

Click here [INFO](#)

- for PB10, PB12:

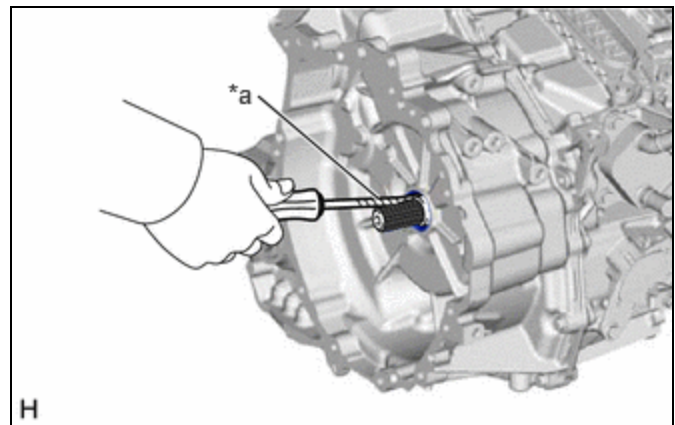
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2. REMOVE INPUT SHAFT TYPE T OIL SEAL

- (a) Using a screwdriver with its tip wrapped with protective tape, remove the input shaft type T oil seal from the hybrid vehicle transaxle assembly.

NOTICE:

Be careful not to damage the input shaft assembly or hybrid vehicle transaxle assembly.



*a	Protective Tape
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3. INSTALL INPUT SHAFT TYPE T OIL SEAL

- (a) Coat the lip of a new input shaft type T oil seal with a small amount of MP grease.

(b) Using SST and a hammer, install the input shaft type T oil seal to the hybrid vehicle transaxle assembly.

SST: 09608-04031

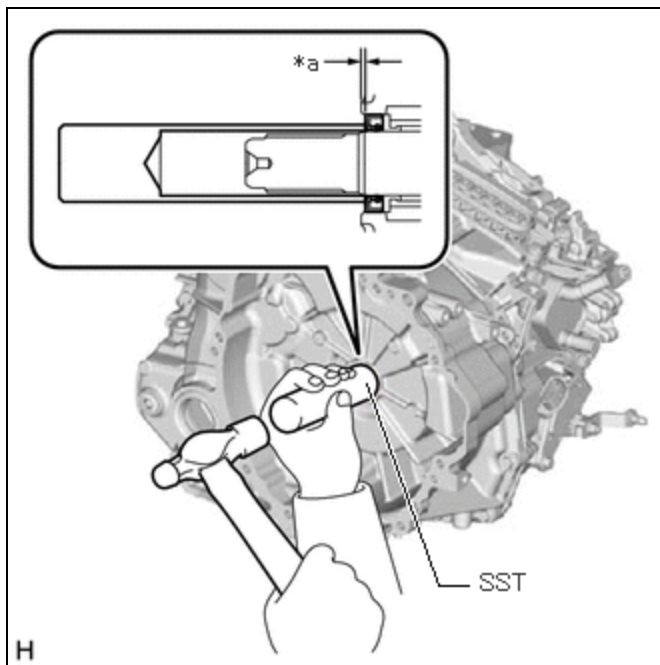
Standard Depth:

for PA10: 1.0 to 2.2 mm (0.0394 to 0.0866 in.)

for PB10, PB12: 3.3 to 4.1 mm (0.130 to 0.161 in.)

NOTICE:

- Do not allow foreign matter to attach to the lip of the input shaft type T oil seal.
- Do not install the input shaft type T oil seal at an angle.



*a	Depth
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4. INSTALL HYBRID VEHICLE TRANSAXLE ASSEMBLY

- for PA10:

Click here [INFO](#)

- for PB10, PB12:

Click here [INFO](#)

