Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002B3O1		
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 - ]		
Title: MAINTENANCE: REAR WHEEL ALIGNMENT: ADJUSTMENT; 2023 - 2024 MY Prius Prius Prime [03/2023 -				

## **ADJUSTMENT**

# **CAUTION / NOTICE / HINT**

The necessary procedures (adjustment, calibration, initialization, or registration) that must be performed after completing the rear wheel alignment procedure are shown below.

#### Necessary Procedures After Parts Removed/Installed/Replaced

REPLACED PART OR	NECESSARY	EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY	LINK
PERFORMED PROCEDURE	PROCEDURE	PROCEDURE NOT PERFORMED	
Rear wheel alignment adjustment	Perform "Calibration"	<ul> <li>DTCs are stored</li> <li>ABS warning light illuminates</li> <li>Brake system warning light (yellow indicator) illuminates</li> <li>Slip indicator light illuminates</li> <li>Electronically controlled brake system disabled or malfunctions</li> </ul>	INFO

## PROCEDURE

### **1. INSPECT TIRES**

(a) Inspect the tires for wear and proper inflation pressure.

Click here

(b) Check the runout of the tires.

Click here

### **2. MEASURE VEHICLE HEIGHT**

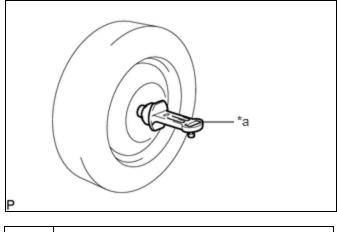
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#### **3. INSPECT CAMBER**

#### NOTICE:

Inspect while the vehicle is unloaded.

(a) Install a camber-caster-kingpin gauge.



\*a Camber-caster-kingpin Gauge

#### (b) Inspect the camber.

Camber (Unloaded Vehicle):

ENGINE	DRIVE TYPE	CAMBER INCLINATION	RIGHT-LEFT DIFFERENCE	
M20A-FXS	2WD	-1°12' +/- 0°45' (-1.20° +/- 0.75°) -1°16' +/- 0°45' (-1.27° +/- 0.75°)*		
	AWD	-1°14' +/- 0°45' (-1.23° +/- 0.75°)	0°45' (0.75°) or less	
2ZR-FXE	2WD	-1°04' +/- 0°45' (-1.07° +/- 0.75°)		
*:for PHEV				

#### HINT:

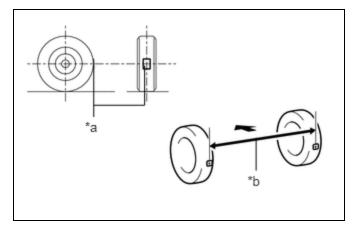
Camber is not adjustable. If the measurement is not within the specified range, inspect the suspension parts for damage and/or wear, and replace them if necessary.

#### 4. INSPECT TOE-IN

#### **NOTICE:**

Inspect while the vehicle is unloaded.

- (a) Bounce the vehicle up and down at the corners to stabilize the suspension.
- (b) Release the parking brake and move the shift lever to N.
- (c) Push the vehicle straight ahead approximately 5 m (16.4 ft.). (Step A)
- (d) Put tread center marks on the rearmost points of the rear wheels and measure the distance between the marks (dimension B).



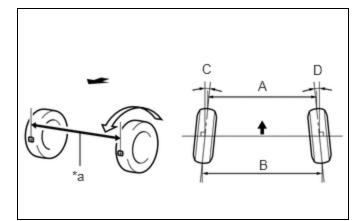
*а	Tread Center Mark				
*b	Dimension B				
•	Front of the Vehicle				

(e) Slowly push the vehicle straight ahead to cause the rear wheels to rotate 180°. Use the rear tire valve as a reference point.

#### HINT:

Do not allow the wheels to rotate more than 180°. If the wheels rotate more than 180°, perform the procedure from step A again.

(f) Measure the distance between the tread center marks on the front of the rear wheels (dimension A).



*а	Dimension A			
•	Front of the Vehicle			

Toe-in (Unloaded Vehicle):

ENGINE	DRIVE TYPE	TIRE SIZE	SPECIFIED CONDITION	RIGHT-LEFT DIFFERENCE
M20A-FXS	2WD	195/60R17	C + D: 0°16' +/- 0°10' (0.26° +/- 0.17°) C + D: 0°17' +/- 0°10' (0.28° +/- 0.17°)*	-
			B - A: 3.0 +/- 2.0 mm (0.118 +/- 0.0787 in.)	2.0 mm (0.0787 in.) or less
*:for PHEV	<u> </u>	<u> </u>	I	

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ENGINE	DRIVE TYPE	TIRE SIZE	SPECIFIED CONDITION	RIGHT-LEFT DIFFERENCE
			B - A: 3.2 +/- 2.0 mm (0.126 +/- 0.0787 in.)*	
		195/50R19	C + D: 0°16' +/- 0°10' (0.26° +/- 0.17°) C + D: 0°17' +/- 0°10' (0.28° +/- 0.17°)*	-
			B - A: 3.1 +/- 2.0 mm (0.122 +/- 0.0787 in.) B - A: 3.3 +/- 2.0 mm (0.13 +/- 0.0787 in.)*	2.0 mm (0.0787 in.) or less
		AWD 195/60R17 195/50R19	C + D: 0°16' +/- 0°10' (0.27° +/- 0.17°)	-
			B - A: 3.1 +/- 2.0 mm (0.122 +/- 0.0787 in.)	2.0 mm (0.0787 in.) or less
			C + D: 0°16' +/- 0°10' (0.27° +/- 0.17°)	-
			B - A: 3.2 +/- 2.0 mm (0.126 +/- 0.0787 in.)	2.0 mm (0.0787 in.) or less
	2WD	2WD 195/60R17	C + D: 0°16' +/- 0°10' (0.27° +/- 0.17°)	-
2ZR-FXE			B - A: 3.1 +/- 2.0 mm (0.122 +/- 0.0787 in.)	2.0 mm (0.0787 in.) or less
*:for PHEV	*:for PHEV			

#### HINT:

Measure "B - A" only when "C + D" cannot be measured.

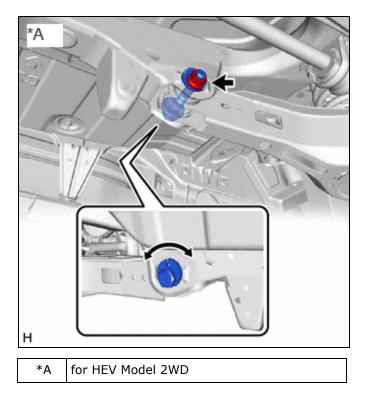
If the toe-in is not within the specified range, adjust it at the rear suspension toe adjust cam sub-assembly.

#### 5. ADJUST TOE-IN

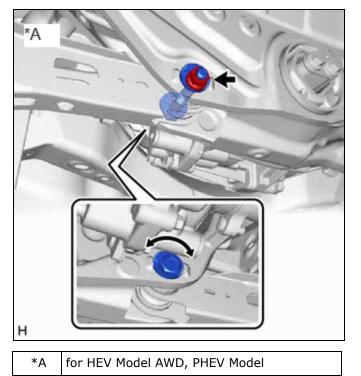
(a) Loosen the nut of the rear No. 2 suspension arm assembly (on the rear suspension member sub-assembly side).

#### **NOTICE:**

Hold the rear suspension toe adjust cam sub-assembly while rotating the nut.



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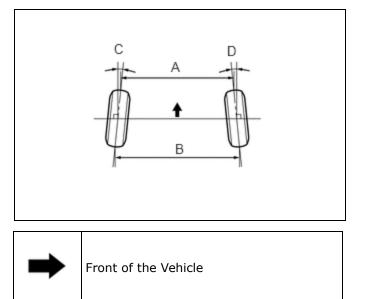
(b) Rotate the rear suspension toe adjust cam sub-assembly to adjust the toe-in.

Toe-in (Unloaded Vehicle):

ENGINE	DRIVE TYPE	TIRE SIZE	SPECIFIED CONDITION	RIGHT-LEFT DIFFERENCE
	2WD	195/60R17	C + D: 0°16' +/- 0°10' (0.26° +/- 0.17°) C + D: 0°17' +/- 0°10' (0.28° +/- 0.17°)*	-
			B - A: 3.0 +/- 2.0 mm (0.118 +/- 0.0787 in.) B - A: 3.2 +/- 2.0 mm (0.126 +/- 0.0787 in.)*	2.0 mm (0.0787 in.) or less
		195/50R19	C + D: 0°16' +/- 0°10' (0.26° +/- 0.17°) C + D: 0°17' +/- 0°10' (0.28° +/- 0.17°)*	-
M20A-FXS			B - A: 3.1 +/- 2.0 mm (0.122 +/- 0.0787 in.) B - A: 3.3 +/- 2.0 mm (0.13 +/- 0.0787 in.)*	2.0 mm (0.0787 in.) or less
		195/60R17	C + D: 0°16' +/- 0°10' (0.27° +/- 0.17°)	-
			B - A: 3.1 +/- 2.0 mm (0.122 +/- 0.0787 in.)	2.0 mm (0.0787 in.) or less
	AWD	AWD 195/50R19	C + D: 0°16' +/- 0°10' (0.27° +/- 0.17°)	-
			B - A: 3.2 +/- 2.0 mm (0.126 +/- 0.0787 in.)	2.0 mm (0.0787 in.) or less
2ZR-FXE	2WD	195/60R17	C + D: 0°16' +/- 0°10' (0.27° +/- 0.17°)	-
			B - A: 3.1 +/- 2.0 mm (0.122 +/- 0.0787 in.)	2.0 mm (0.0787 in.) or less
*:for PHEV				

#### HINT:

- Rotating the rear suspension toe adjust cam sub-assembly by one notch changes the toe by approximately 2.6 mm (0.102 in.).
- Perform adjustments so that the value is as close as possible to the median of the specified range.



(c) Tighten the nut of the rear No. 2 suspension arm assembly (on the rear suspension member sub-assembly side).

#### **Torque:**

#### 100 N·m {1020 kgf·cm, 74 ft·lbf}

#### **NOTICE:**

Hold the rear suspension toe adjust cam sub-assembly while rotating the nut.

#### 6. ALIGN FRONT WHEELS FACING STRAIGHT AHEAD

#### 7. PERFORM CALIBRATION



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