

# Uneven Wear on Rear Brake Pads

Service  
Category Brake

Section Brake (rear)

Market USA

Toyota Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2012	Prius PHV	
2010 – 2012	Prius	

## Introduction

Some 2010 – 2012 model year Prius and 2012 model year Prius PHV vehicles may exhibit uneven brake pad wear on the rear brake pads. The vehicle may also exhibit a grinding or scraping noise due to the uneven brake pad wear. An updated rear pad kit has been developed to address this condition.

## Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
Prius	Tsutsumi	JTDKN3DU#C0336183
		JTDKN3DU#C1577949
	Toyota Auto Body	JTDKN3DU#C5496212
Prius PHV	Tsutsumi	JTDKN3DP#C3022883

## Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
04466-47020 04466-47030 04466-47040 04466-47060 04466-47061	04466-47080	Rear Brake Pad Kit	1
08887-80409	Same	Disc Brake Shim Grease	1

## Uneven Wear on Rear Brake Pads

### Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
473311	R & R Rear Brake Pads	0.8	04466-47020 04466-47030		
BR1207	Turn Rear Brake Rotors and Replace Rear Brake Pads (Both Sides)*	2.0	04466-47040 04466-47060 04466-47061	91	17

\* Do NOT claim both Machining and Rotor replacement. Only ONE or the other operation is allowed, if required.

<p><b>APPLICABLE WARRANTY</b></p> <ul style="list-style-type: none"> <li>• This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.</li> <li>• Warranty application is limited to occurrence of the specified condition described in this bulletin.</li> </ul>
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### Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Variable Pin Wrench Set**	<u>09960-10010</u>	1
Companion Flange Holding Tool**	<u>09330-00021</u>	1

\*\* Essential SST.

<p><b>NOTE</b></p> <p>Additional SSTs may be ordered by calling 1-800-933-8335.</p>
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## Uneven Wear on Rear Brake Pads

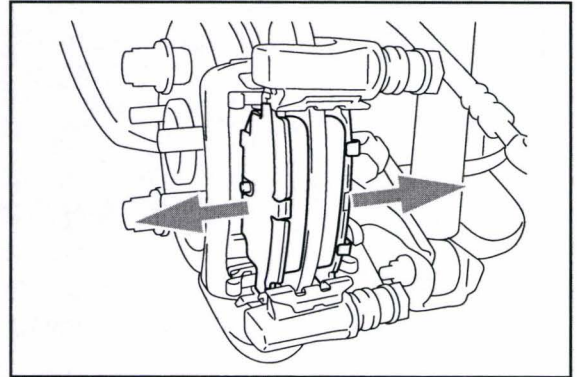
### Repair Procedure

1. Remove the rear brake pads.

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

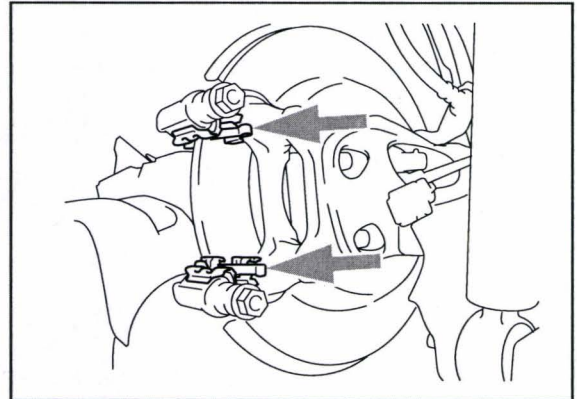
- 2010 / 2011 / 2012 Prius:  
*Brake – Brake (Rear) – “Brake (Rear): Rear Brake: Removal”*
- 2012 Prius PHV:  
*Brake – Brake (Rear) – “Brake (Rear): Rear Brake: Removal”*

Figure 1.



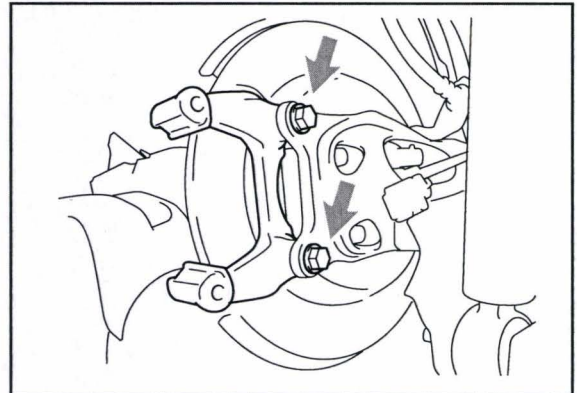
2. Inspect the pad support clips and clean off any corrosion that might be on the brake cylinder mounting plate.

Figure 2.



3. Remove the rear disc brake cylinder mounting.

Figure 3.





## Uneven Wear on Rear Brake Pads

### Repair Procedure (Continued)

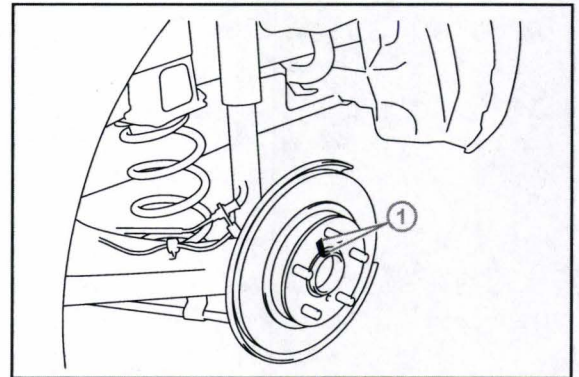
4. Inspect the rear disc thickness.

Refer to TIS, applicable model and model year Repair Manual:

- 2010 / 2011 / 2012 Prius:  
*Brake – Brake (Rear) – “Brake (Rear): Rear Brake: Inspection”*
- 2012 Prius PHV:  
*Brake – Brake (Rear) – “Brake (Rear): Rear Brake: Inspection”*

- A. Place a match mark on the rotor and the rear axle hub to indicate their original positions.

Figure 4.



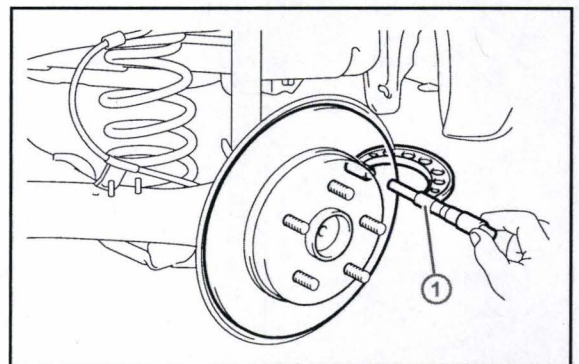
1	Matchmark
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- B. Using a micrometer, measure the disc thickness.

**Standard Thickness: 9.0 mm (0.354 in.)**

**Minimum Thickness: 7.5 mm (0.295 in.)**

Figure 5.



1	Micrometer
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- C. If the disc thickness is less than specified, replace the rear disc.

## Uneven Wear on Rear Brake Pads

### Repair Procedure (Continued)

5. Inspect disc run-out.

Refer to TIS, applicable model and model year Repair Manual:

- 2010 / 2011 / 2012 Prius:  
*Brake – Brake (Rear) – “Brake (Rear): Rear Brake: Inspection”*
- 2012 Prius PHV:  
*Brake – Brake (Rear) – “Brake (Rear): Rear Brake: Inspection”*

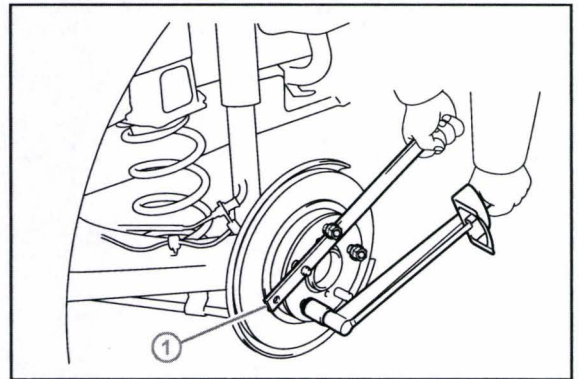
A. Inspect the rear axle hub bearing and axle hub run-out.

B. While holding the disc to the hub with the SST, tighten the hub nuts to the disc using the 5 star pattern sequence.

**SST: 09330-00021**

**Torque: 103 N\*m (1050 kgf\*cm, 76 ft\*lb)**

Figure 6.

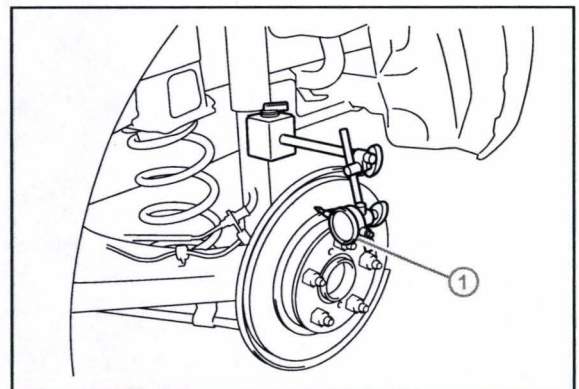


1	SST
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C. Using a dial indicator with a magnetic base, measure the disc run-out 10 mm (0.394 in.) away from the outer edge of the rear disc.

**Maximum Disc Run-out: 0.15 mm (0.00591 in.)**

Figure 7.



1	Dial Indicator
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**NOTICE**

- Keep the magnet of the dial indicator away from the axle hub and speed sensor.
- If the run-out exceeds the maximum value, change the installation position of the disc to minimize the run-out. If the run-out exceeds the maximum even when the installation position is changed, grind the disc with on the car brake lathe. If the disc thickness is less than the minimum, replace the rear disc.



## Uneven Wear on Rear Brake Pads

### Repair Procedure (Continued)

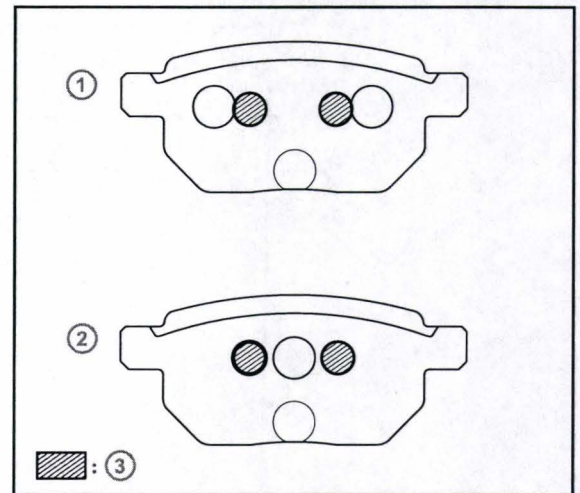
6. Install NEW rear brake anti-squeal shims with brake pads into the rear caliper assembly brackets.

Refer to TIS, applicable model and model year Repair Manual:

- 2010 / 2011 / 2012 Prius:  
*Brake – Brake (Rear) – “Brake (Rear): Rear Brake: Installation”*
- 2012 Prius PHV:  
*Brake – Brake (Rear) – “Brake (Rear): Rear Brake: Installation”*

A. Apply Disc Brake Shim Grease (P/N 08887-80409) to the back plate of the rear disc brake pads.

Figure 8.



1	Inner Pad
2	Outer Pad
3	Disc Brake Shim Grease

## Uneven Wear on Rear Brake Pads

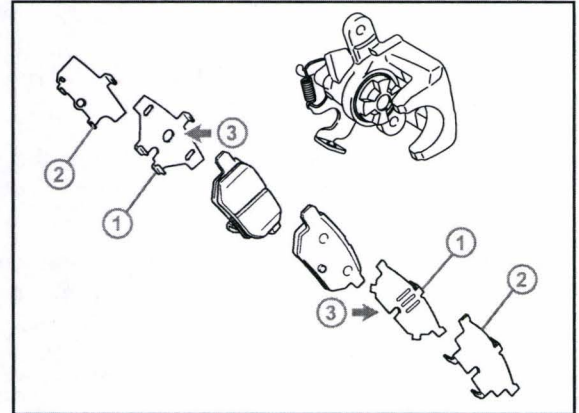
### Repair Procedure (Continued)

- B. Install the No. 1 disc brake anti-squeal shim and No. 2 disc brake anti-squeal shim to each rear disc brake pad.

Figure 9.

**NOTE**

- When replacing worn pads, the anti-squeal shims must be replaced together with the pads.
- Apply Disc Brake Shim Grease (graphite based) to the inside surface of the No. 2 anti-squeal shim.
- Disc Brake Shim Grease may seep out slightly from the areas where the anti-squeal shims are installed.
- Make sure that Disc Brake Shim Grease is not applied onto the lining surface.
- There should be no oil or grease on the friction surfaces of the disc brake pads or the rear disc.



1	Rear No. 1 Disc Brake Anti-squeal Shim
2	Rear No. 2 Disc Brake Anti-squeal Shim
3	Disc Brake Shim Grease

- C. Install rear brake pads into caliper brackets.
7. Install the rear disc brake cylinder assembly and adjust the parking brake.

Refer to TIS, applicable model and model year Repair Manual:

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- 2012 Prius PHV:  
*Brake – Brake (Rear) – “Brake (Rear): Rear Brake: Installation”*

## Uneven Wear on Rear Brake Pads

### Repair Procedure (Continued)

- A. To compensate for pad wear, use the Variable Pin Wrench Set to turn the piston to the position where the protrusion on the pad lines up properly with the piston groove.

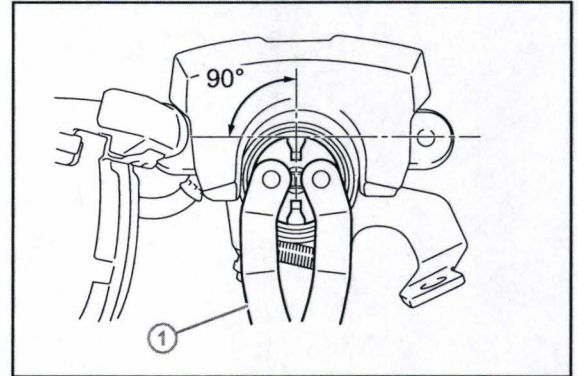
**Retract: Clockwise**

**Extend: Counterclockwise**

**NOTE**

Place the disc between the 2 brake pads and determine the piston return value.

Figure 10.



1	90°
2	SST

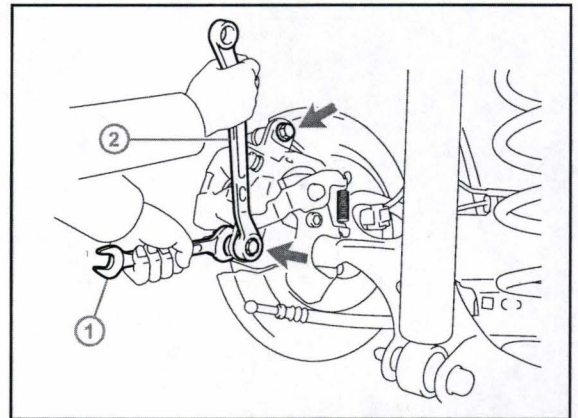
- B. Place the disc between the 2 brake pads and determine the piston return value.

- C. Hold the rear disc brake cylinder pad guide pin and install the rear disc brake cylinder assembly to the rear disc brake cylinder mounting with the 2 bolts.

**NOTE**

- Install the rear disc brake cylinder assembly while holding both of the rear disc brake pads because the anti-squeal springs may fall off the rear disc brake pads.
- Be sure that the anti-squeal springs are installed to the rear disc brake pads.

Figure 11.



1	Hold
2	Turn

8. Test drive the vehicle and confirm the rubbing or grinding noise is no longer present.