

# Front Brake Vibration

**Service Category** Brake

**Section** Brake (front)

**Market** USA

Toyota Supports  
 ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2011 – 2017	Sienna	

### REVISION NOTICE

**September 19, 2017 Rev2:**

- Applicability has been updated to include 2017 model year Sienna vehicles.

**August 2, 2016 Rev1:**

- Applicability has been updated to include 2015 – 2016 model year Sienna vehicles.

Any previous printed versions of this bulletin should be discarded.

## Introduction

Some 2011 – 2017 model year Sienna vehicles may exhibit a vibration/pulsation from the front brakes that can be felt in the brake pedal while lightly applying the brake pedal. Follow the Repair Procedure in this bulletin to address this condition.

## Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
04465-0E010	04465-45040	Pad Kit, Brake Front	1
	04945-0E040	Shim Kit, Anti-squeal, FR	1
	43512-0E030	Disc, Front	2
	53851-08010	Pad, Front Wheel Opening Extension, RH	1
	53852-08010	Pad, Front Wheel Opening Extension, LH	1

## Front Brake Vibration

### Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
BR1401	R & R Front Disc Pad W/Anti-squeal Shim Kit (Both Sides)	0.8	43512-0E030 04465-0E010	9B	99
Combo A	Extension Pad Modification	0.5	53851-08010 53852-08010		

#### APPLICABLE WARRANTY

- 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.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

### Repair Procedure

1. Conduct a road test to verify there is front brake vibration.

#### NOTE

The condition usually occurs when the vehicle is driven on decline/downhill.

2. Modify the front extension pads and reinstall on the vehicle.

#### NOTE

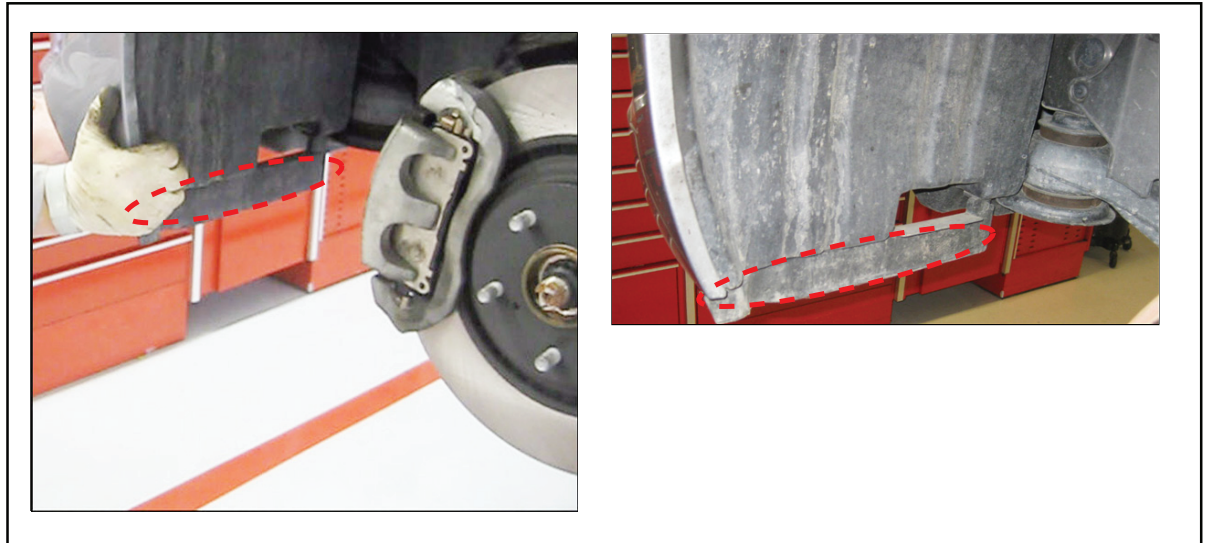
Modification **MUST** be completed on both the passenger and driver side of the vehicle.

## Front Brake Vibration

### Repair Procedure (Continued)

- A. Locate the front wheel opening extension pad.

**Figure 1.**



- B. Remove the four bolts and the extension pad.

**Figure 2.**



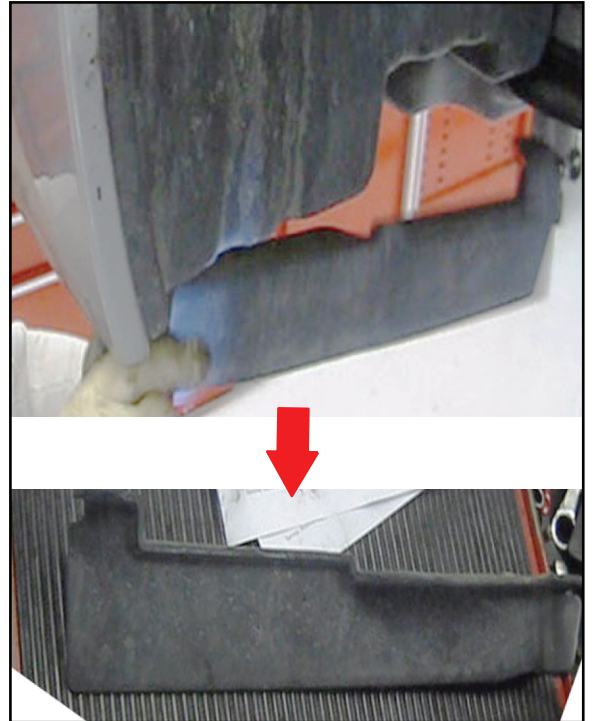
## Front Brake Vibration

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### Repair Procedure (Continued)

- C. Place the extension pad on a flat surface for modification.

**Figure 3.**



## Front Brake Vibration

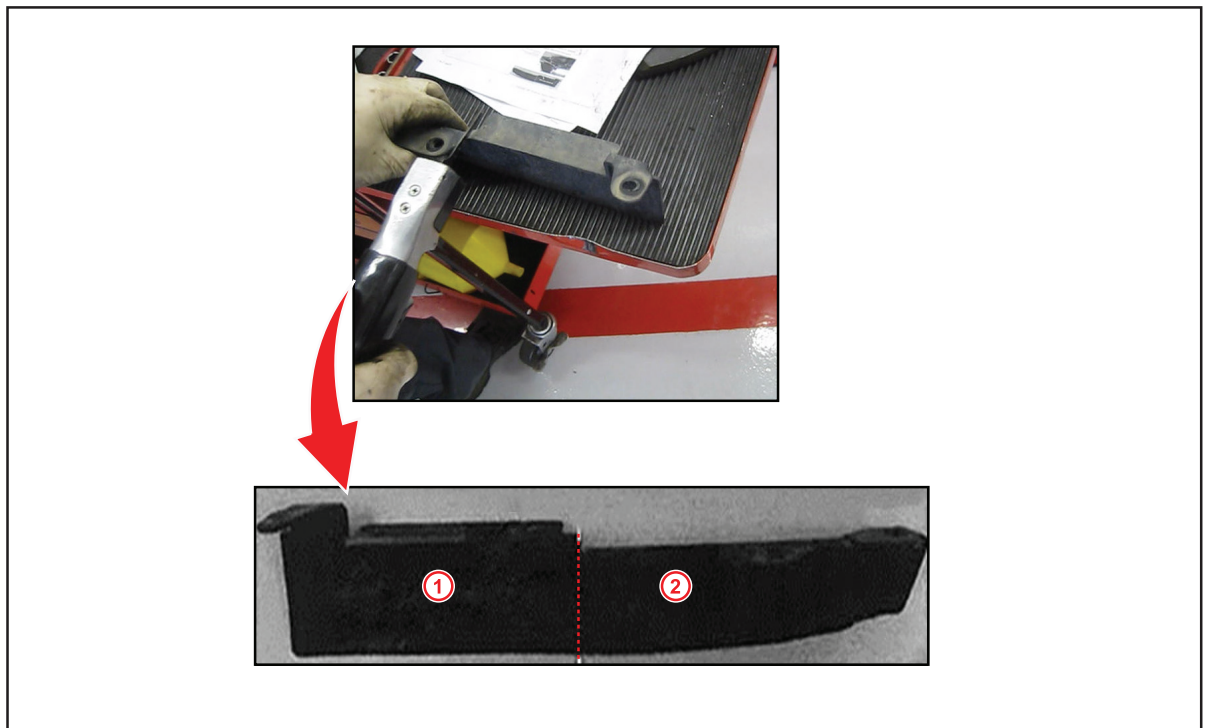
### Repair Procedure (Continued)

D. Using a power saw, cut at the location shown.

**NOTE**

- It is recommended to draw a straight line where the cut will be made.
- Callout 1 as shown should be discarded.

Figure 4.



<b>1</b>	Discard
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<b>2</b>	Reinstall on the Vehicle
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E. Install the modified extension pad back on the vehicle and reinstall the fourth remaining bolt to the original location as shown.

**NOTE**

Make sure modification is completed on both sides.

Figure 5.

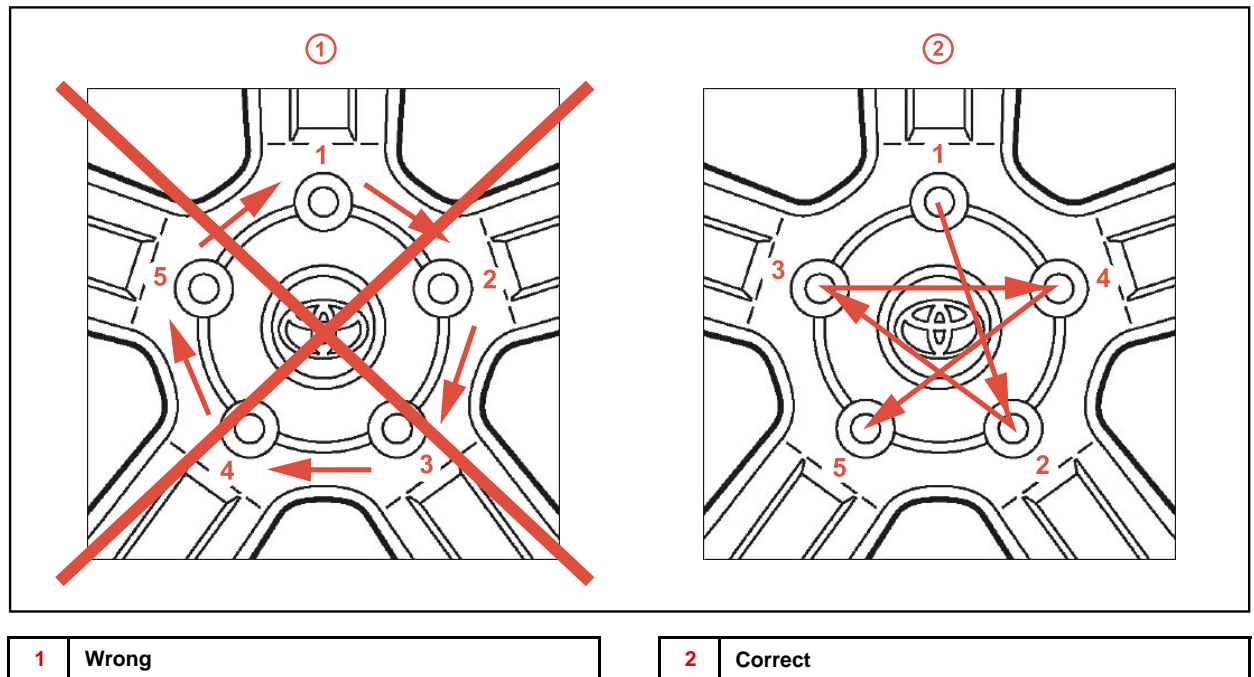


## Front Brake Vibration

### Repair Procedure (Continued)

3. The NEW rotor MUST be phase matched to the hub assembly.
  - A. Mount the rotor onto the hub assembly and note the starting lug position.
  - B. Measure the runout of the hub and rotor assembly at the outermost point of the rotor surface and record the runout measurement.
  - C. Rotate the rotor clockwise on the hub to the next lug position.
  - D. Repeat step B at each lug position.
  - E. The rotor position will be determined based on the lowest runout measurement obtained.  
**Max Runout Allowed: 0.05 mm (0.00197 in.)**
4. Replace the original brake pads with the newly developed brake pads and shim kit.
5. Install the front wheel and torque to specification using the correct tightening sequence.  
**Torque: 103 N\*m (1050 kgf\*cm, 76 ft\*lbf)**

Figure 6.



**NOTICE**  
 Do NOT use an impact gun to tighten the lug nuts; use a torque wrench and follow the correct sequence to tighten the wheels.

6. Test drive the vehicle and confirm that the condition is no longer present.