

Front Brake Vibration

Service Category Brake

Section Brake (front)

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2011 - 2020	Sienna	

REVISION NOTICE

November 24, 2020 Rev1:

- Applicability has been updated to include 2019 – 2020 model year Sienna vehicles.
- Any previous printed versions of this bulletin should be discarded.

SUPERSESSION NOTICE

The information contained in this bulletin supersedes Service Bulletin No. T-SB-0045-14.

- Applicability has been updated to include 2018 model year Sienna vehicles.
- The entire bulletin has been updated.

Service Bulletin No. T-SB-0045-14 is obsolete and any printed versions should be discarded.

Introduction

Some 2011 – 2020 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.

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	04465-0E010	9B	99
Combo A	Extension Pad Modification	0.5			

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.

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

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 a decline/downhill.

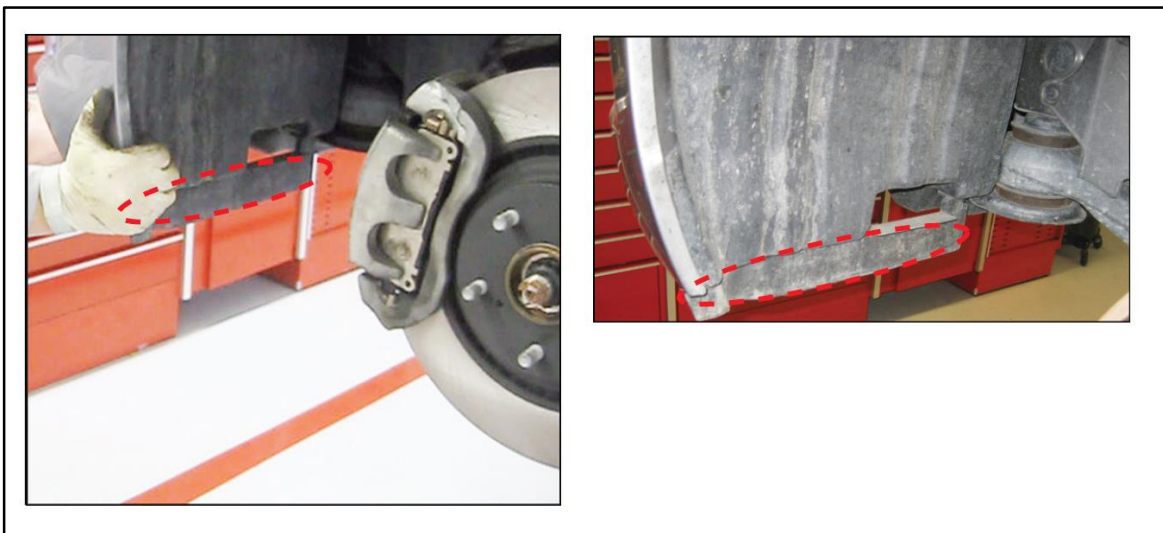
2. Modify the front extension pads and reinstall on the vehicle.

NOTE

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

- A. Locate the front wheel opening extension pad.

Figure 1.



Front Brake Vibration

Repair Procedure (continued)

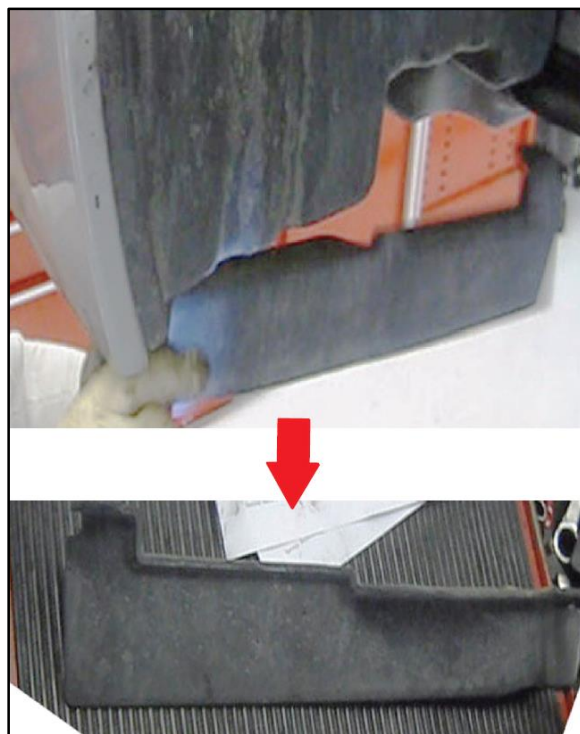
- B. Remove the four bolts and the extension pad.

Figure 2.



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

Figure 3.



Front Brake Vibration

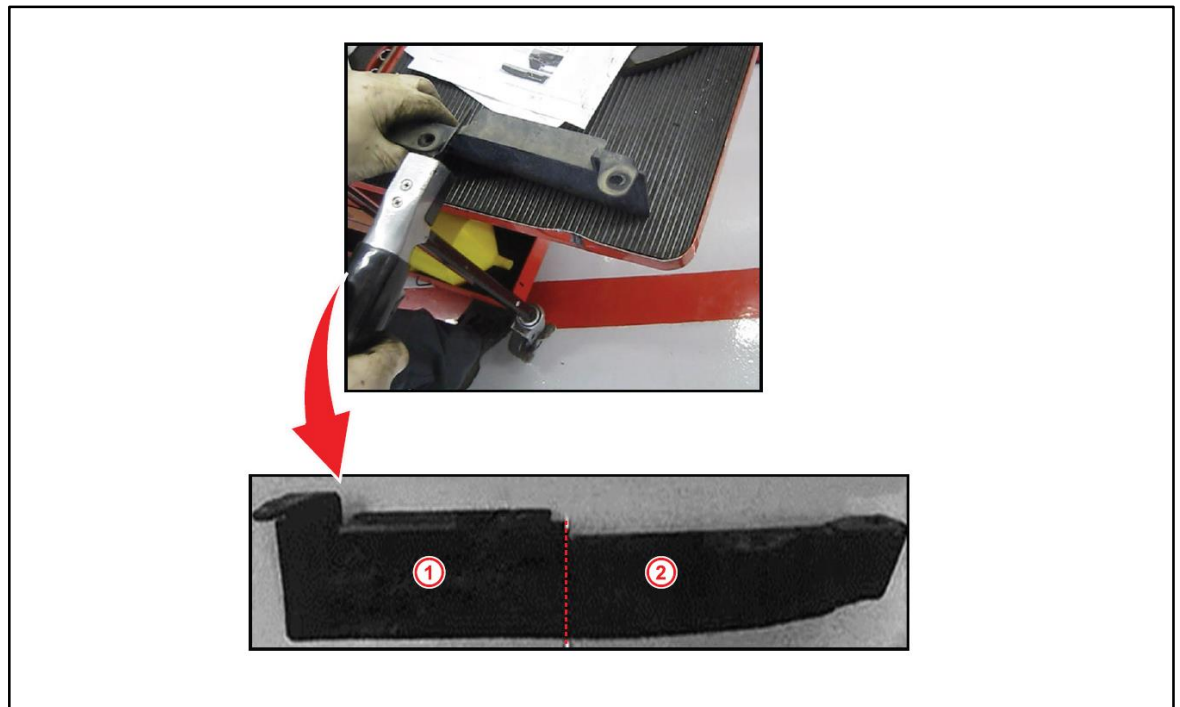
Repair Procedure (continued)

- 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.



1	Discard
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2	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)

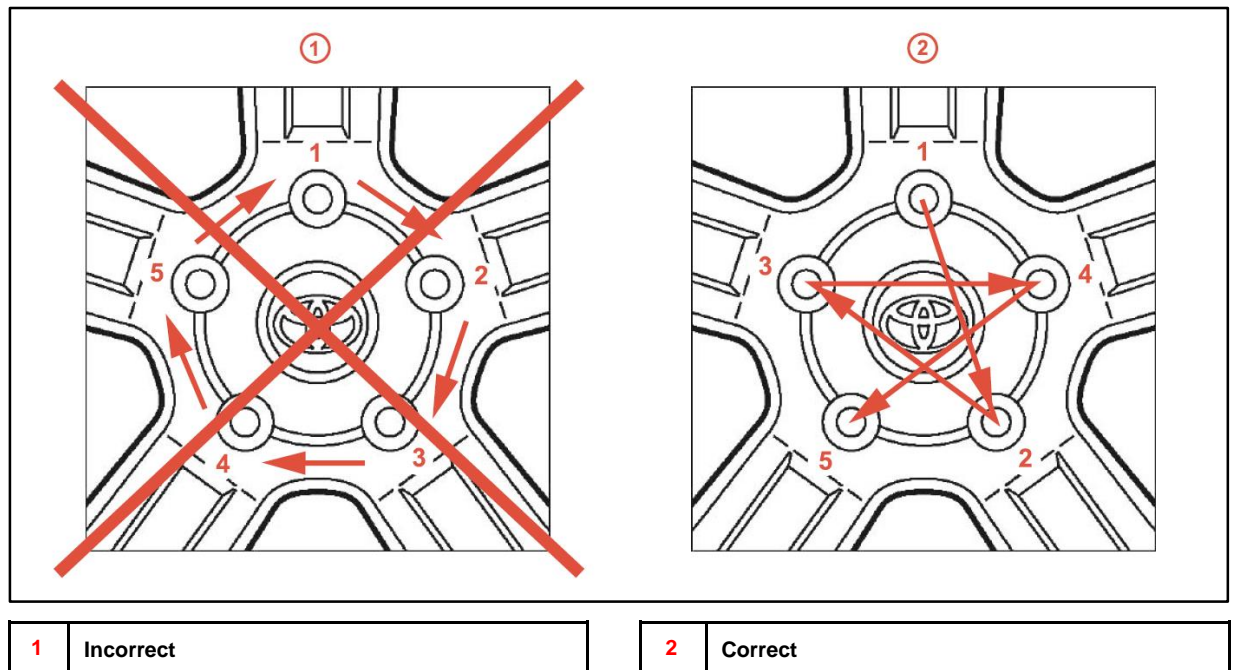
3. The NEW rotor MUST be phase-matched to the hub assembly.
 - A. Mount the rotor onto the hub assembly and note the starting lug position.
 - B. Measure the runout of the hub and rotor assembly at the outermost point of the rotor surface and record the runout measurement.
 - C. Rotate the rotor clockwise 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 OLD brake pads with the NEW 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.