

Front Brake Vibration

Service
Category Brake

Section Brake (front)

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2011 – 2014	Sienna	

Introduction

Some 2011 – 2014 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. New front brake pads and a new field fix repair procedure have been developed to improve 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

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	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.

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 decline/downhill.

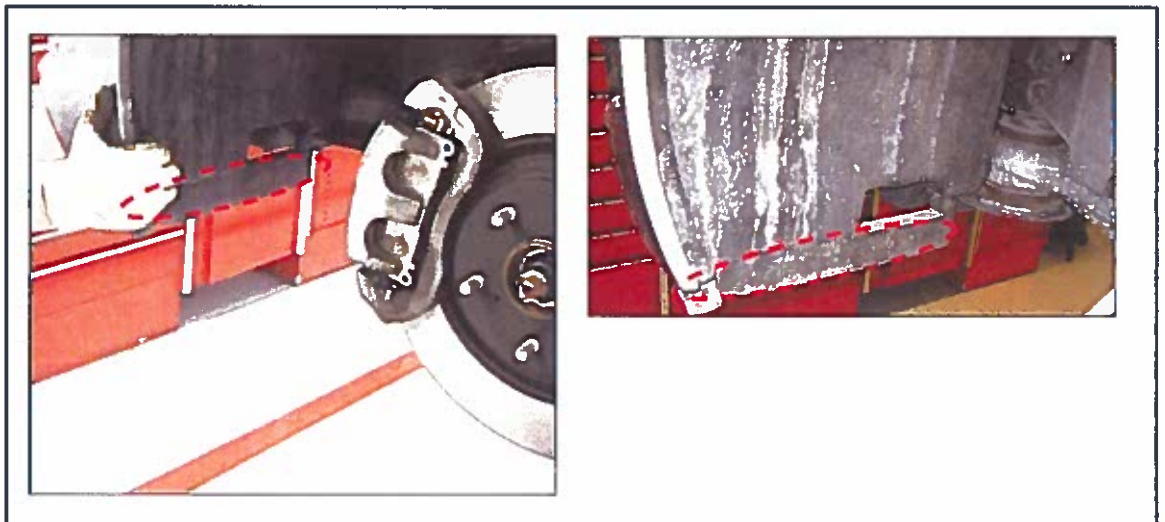
2. Modify front extension pads and reinstall on vehicle.

NOTE

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

- A. Locate Front Wheel Opening Extension Pad.

Figure 1.



Front Brake Vibration

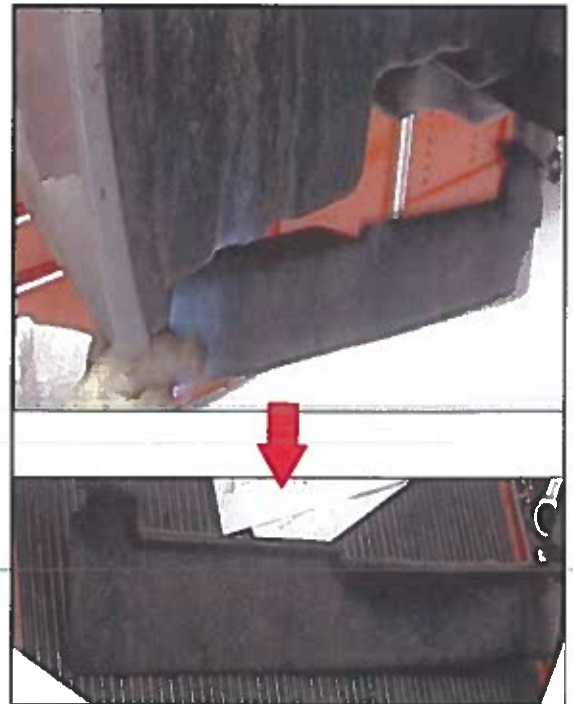
Repair Procedure (Continued)

- B. Remove 4 bolts and remove the extension pad. **Figure 2.**



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

Figure 3.



Front Brake Vibration

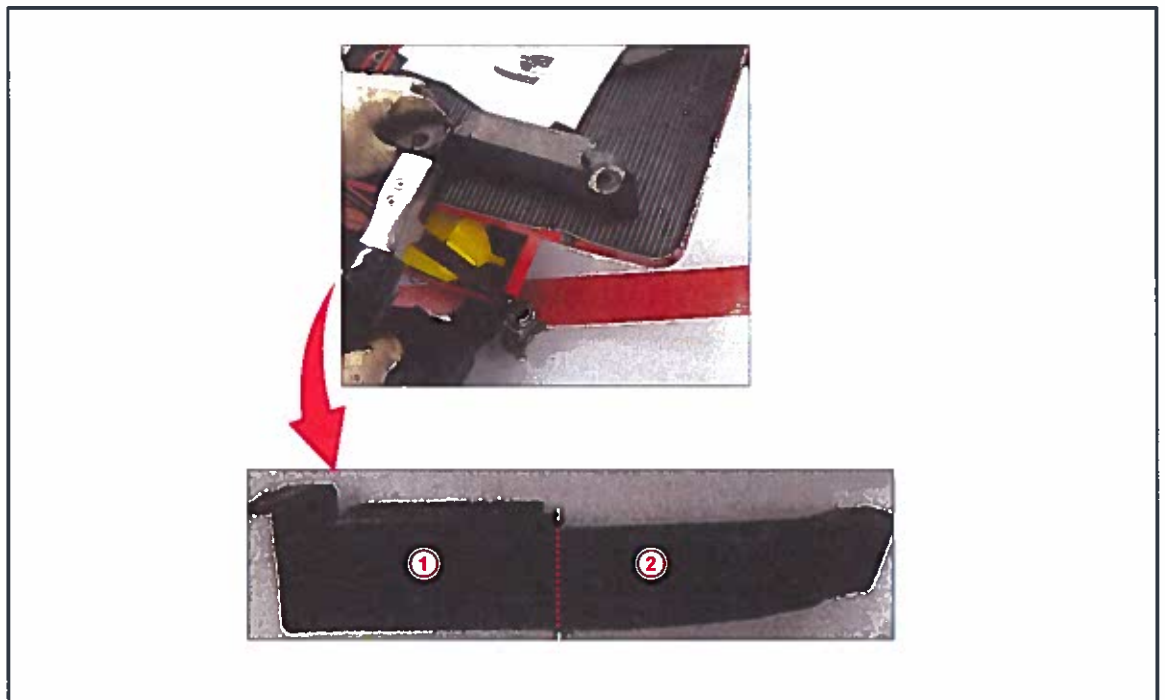
Repair Procedure (Continued)

D. Using a power saw, cut at location specified.

NOTE

- It is recommended to draw a straight line where the cut will be made.
- Callout 1 in Figure 4 should be discarded.

Figure 4.



1	Discard
----------	----------------

2	Reinstall On The Vehicle
----------	---------------------------------

E. Install the modified extension pad back on the vehicle and reinstall the 4th remaining bolt to the original location as referenced in Figure 5.

NOTE

Make sure modification is completed on both sides.

Figure 5.



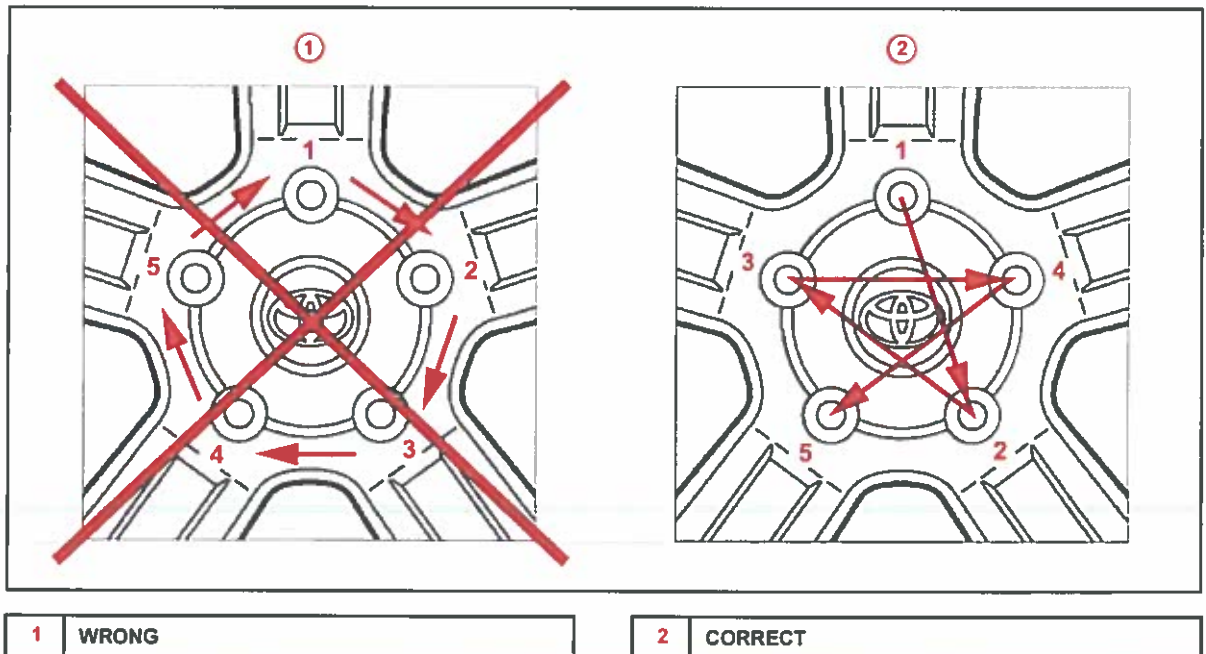
Front Brake Vibration

Repair Procedure (Continued)

3. New rotor **MUST** be phase matched to the hub assembly.
 - A. Mount rotor onto hub assembly and note the starting lug position.
 - B. Measure the runout of the hub and rotor assembly at the outermost point of rotor surface and record the runout measurement.
 - C. Rotate rotor clockwise on hub to the next lug position.
 - D. Repeat step B at each lug position.
 - E. 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 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.

