

# Rear Axle Bearing Abnormal Noise

Service  
Category Drivetrain

Section Axle/Differential

Market USA

Toyota Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2007 – 2010	Tundra	

### TSB REVISION NOTICE

September 30, 2011 Rev1:

- Production Change Information has been added.
- Warranty Information has been updated.

Any previous printed versions of this service bulletin should be discarded.

## Introduction

Some 2007 – 2010 model year Tundra vehicles may exhibit a howling or growling noise from the rear of the vehicle that increases with vehicle speed. Changes have been made to the rear axle bearing to address this condition. Follow the procedure in the bulletin to address customer concerns.

## Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
421101	R & R Rear Axle Shaft Bearing	2.2	424#0-0C010	91	43
Combo A	Opposite Side	1.0			

### APPLICABLE WARRANTY

- This repair is covered under the Toyota Powertrain Warranty. This warranty is in effect for 60 months or 60,000 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.

## Rear Axle Bearing Abnormal Noise

### Production Change Information

This TSB applies to all 2007 – 2009 model year Tundra vehicles and to 2010 model year Tundra vehicles up to the Production Change Effective VINs shown below.

ENGINE	DRIVE-TRAIN	CAB TYPE	BED LENGTH	GRADE	WHEEL BASE (MM)	PRODUCTION CHANGE EFFECTIVE VIN				
1GR-FE	2WD	Regular	Standard (6.5 ft)	Deluxe	3220	5TFJU5F1#AX004576				
			Long (8.1 ft)		3700	5TF#U5F1#AX023893				
Double		Standard (6.5 ft)	SR5	3700		5TF#M5F1#AX018923				
Regular			Deluxe		3220		5TFJM5F1#AX004597			
			Double		Limited		3700	5TF#M5F1#AX018923		
SR5					5TF#M5F1#AX018923					
CrewMax		Short (5.5 ft)	Limited	3700		5TF#M5F1#AX018923				
			SR5		5TF#M5F1#AX018923					
Regular		Long (8.1 ft)	Deluxe	4180		5TFTM5F1#AX001237				
			SR5		5TFTM5F1#AX001237					
Double		Long (8.1 ft)	SR5	4180		5TFTM5F1#AX001237				
			SR5		5TFTM5F1#AX001237					
1UR-FE	4WD	Regular	Standard (6.5 ft)	Deluxe		3220	5TFKM5F1#AX001369			
				Limited	3700	5TF#M5F1#AX014466				
		Double		SR5			3700	5TF#M5F1#AX014466		
				CrewMax					Short (5.5 ft)	Limited
		SR5	3700							5TF#M5F1#AX014466
		Regular		Long (8.1 ft)	Deluxe	4180			5TFCM5F1#AX001315	
			SR5		4180		5TFCM5F1#AX001315			
		Double	Long (8.1 ft)	SR5		4180		5TFCM5F1#AX001315		
				SR5	4180		5TFCM5F1#AX001315			
		3UR-FE	2WD	Regular		Standard (6.5 ft)		Deluxe	3220	5TFJY5F1#AX003328
SR5	3700				5TF#Y5F1#AX096724					
CrewMax				Short (5.5 ft)		Limited	3700	5TF#Y5F1#AX096724		
						SR5			3700	5TF#Y5F1#AX096724
Regular				Long (8.1 ft)		Deluxe				
	SR5				4180	5TFTY5F1#AX006913				
Double	Long (8.1 ft)	SR5	4180	5TFTY5F1#AX006913						
		SR5			4180	5TFTY5F1#AX006913				
3UR-F##	4WD	Regular	Standard (6.5 ft)	Deluxe			3220	5TFK#5F1#AX004443		
				Limited	3700	5TF##5F1#AX147774				
		Regular	Long (8.1 ft)	Deluxe			3700	5TF##5F1#AX147774		
				SR5					3700	5TF##5F1#AX147774
		CrewMax	Short (5.5 ft)	Limited						
				SR5	3700	5TF##5F1#AX147774				
Double	Long (8.1 ft)	SR5	4180	5TFC#5F1#AX011159						
		SR5					4180	5TFC#5F1#AX011159		

## Rear Axle Bearing Abnormal Noise

### Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
N/A	04000-0010C	Rear Wheel Bearing Kit (RH)	1
N/A	04000-0020C	Rear Wheel Bearing Kit (LH)	1

### Required Tools & Equipment

TOOLS & MATERIAL	QUANTITY
Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 (or equivalent)	As Needed

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
ChassisEAR™ (or equivalent)	ADE	JSPSM06606 (JS Products)	1

#### NOTE

- A mechanic's stethoscope or similar tool may be used in place of ChassisEAR™.
- ChassisEAR™ may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

SPECIAL SERVICE TOOLS (SST'S)	PART NUMBER	QTY
Oil Seal Puller	<u>09308-00010</u>	1
Rear Axle Shaft Puller*	<u>09521-25011-01</u>	1
Rear Axle Shaft Puller Adapter*	<u>09521-60010-01</u>	1
Rear Axle Shaft Puller Spacer*	<u>09521-25000-01</u>	
Seal Ring Tool*	<u>09631-12090</u>	1
Lower Control Shaft Bearing Replacer	<u>09726-40010</u>	1
Replacer Set #3* (Replacer 110)	<u>09950-60030-01</u> <u>(09951-01100-01)</u>	1
Outer Bearing Cup Replacer	<u>09950-60020</u>	1
Handle Set*	<u>09950-70010-01</u>	1
Brake Shoe Return Spring Tool**	<u>09703-30010</u>	1
Shoe Hold Down Spring Driver**	<u>09718-00010</u>	1

\* Essential SST.

\*\* Special Order.

#### NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

## Rear Axle Bearing Abnormal Noise

---

### Repair Procedure Overview

- Confirm noise is coming from the rear of the vehicle and changes with vehicle speed.
- Install ChassisEAR™ (or equivalent) and isolate the noise to the rear wheel bearing.
- Remove the rear axle shaft assembly.
- Install new rear wheel bearing, brake caliper bracket, and seals.
- Reinstall rear axle shaft assembly and confirm the noise is no longer present.

### Repair Procedure

1. Test drive the vehicle and confirm the customer complaint.

Does the noise increase and decrease with vehicle speed?

- **YES** — Go to step 2.
- **NO** — This TSB does NOT apply. Refer to the Repair Manual for further diagnosis.

2. Install ChassisEAR™ on the vehicle and attempt to isolate the source of the noise.

Is the noise loudest near the rear wheel bearing assembly?

- **YES** — Go to step 3.
- **NO** — This TSB does NOT apply. Continue diagnosis to isolate the source of the noise.

3. Replace the rear wheel bearing, caliper bracket, and related parts.

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

- 2007 Tundra:  
*Drivetrain – Axle/Differential – “Axle: Rear Axle Shaft: Removal / Disassembly / Reassembly / Installation”*
- 2008 Tundra:  
*Drivetrain – Axle/Differential – “Axle: Rear Axle Shaft: Removal / Disassembly / Reassembly / Installation”*
- 2009 Tundra:  
*Drivetrain – Axle/Differential – “Axle: Rear Axle Shaft: Removal / Disassembly / Reassembly / Installation”*
- 2010 Tundra:  
*Drivetrain – Axle/Differential – “Axle: Rear Axle Shaft: Removal / Disassembly / Reassembly / Installation”*

4. Test drive the vehicle and confirm the noise is eliminated.
5. Re-check rear differential oil level and confirm NO leaks are present.