

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	OFF	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.

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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								
CrewMax	Short (5.5 ft)		Limited		3700		5TF#M5F1#AX018923	
	SR5							
Regular	Long (8.1 ft)	Deluxe	4180	5TFTM5F1#AX001237				
		SR5						
1UR-FE	4WD	Regular	Standard (6.5 ft)	Deluxe	3220	5TFKM5F1#AX001369		
				Limited	3700	5TF#M5F1#AX014466		
		Double	SR5					
			CrewMax	Short (5.5 ft)			Limited	3700
		SR5						
		Regular	Long (8.1 ft)	Deluxe			4180	5TFCM5F1#AX001315
SR5								
3UR-FE	2WD	Regular	Standard (6.5 ft)	Deluxe	3220	5TFJY5F1#AX003328		
				SR5	3700	5TF#Y5F1#AX096724		
		CrewMax	Short (5.5 ft)	Limited				
			SR5					
		Regular	Long (8.1 ft)	Deluxe	4180	5TFTY5F1#AX006913		
SR5								
3UR-F##	4WD	Regular	Standard (6.5 ft)	Deluxe	3220	5TFK#5F1#AX004443		
				Limited	3700	5TF##5F1#AX147774		
		Regular	Long (8.1 ft)	Deluxe				
			Double	Standard (6.5 ft)			SR5	
		CrewMax	Short (5.5 ft)	Limited			4180	5TFC#5F1#AX011159
			Double	Long (8.1 ft)				

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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	09308-00010	1
Rear Axle Shaft Puller*	09521-25011-01	1
Rear Axle Shaft Puller Adapter*	09521-60010-01	1
Rear Axle Shaft Puller Spacer*	09521-25000-01	
Seal Ring Tool*	09631-12090	1
Lower Control Shaft Bearing Replacer	09726-40010	1
Replacer Set #3* (Replacer 110)	09950-60030-01 (09951-01100-01)	1
Outer Bearing Cup Replacer	09950-60020	1
Handle Set*	09950-70010-01	1
Brake Shoe Return Spring Tool**	09703-30010	1
Shoe Hold Down Spring Driver**	09718-00010	1

* Essential SST.

** Special Order.

NOTE

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

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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.