

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	

SUPERSESSION NOTICE

The information contained in this bulletin supersedes Service Bulletin T-SB-0151-10.

- The Warranty Information section has been updated.
- The Parts Information, Required Tools & Equipment, and Repair Procedure sections have been updated.

Service Bulletin T-SB-0151-10 is obsolete and any printed versions should be discarded.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 Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

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Production Change Information

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

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Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
04002-4310C(RH)	42423-34040	Retainer, RR Axle Bearing, Inner	1
	42450-0C011	Bearing Assy, RR Axle W/ABS Rotor, RH	1
	46503-0C012	Plate Sub-assy, Parking Brake, RH	1
	90119-A0276	Bolt, W/Washer	2
	90301-A0015	Ring, O	1
	90310-A0004	Seal, Type S Oil	1
	90468-08035	Clip	1
	90520-46014	Ring, Snap	1
04002-4320C(LH)	42423-34040	Retainer, RR Axle Bearing, Inner	1
	42460-0C011	Bearing Assy, RR Axle W/ABS Rotor, LH	1
	46504-0C012	Plate Sub-assy, Parking Brake, LH	1
	90119-A0276	Bolt, W/Washer	2
	90301-A0015	Ring, O	1
	90310-A0004	Seal, Type S Oil	1
	90468-08035	Clip	1
	90520-46014	Ring, Snap	1

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Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	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	1
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**	09703-30011	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.

REQUIRED 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	JSP06608 (JS Products)	1

*Essential SST.

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.

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Repair Procedure

1. Test-drive the vehicle and confirm the condition exists.
Does the vehicle exhibit a howling or growling noise from the rear of the vehicle that increases with vehicle speed?
 - **YES** — Continue to step 2.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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** — Continue to step 3.
 - **NO** — This bulletin does NOT apply. Continue diagnosis diagnosis using the applicable Repair Manual.

3. Replace the rear wheel bearing, caliper bracket, and related parts.
Refer to the 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. Recheck rear differential oil level and confirm NO leaks are present.