

# Rear Differential Whine Noise at 50 - 60 MPH

Service

Category

Drivetrain

**Section** 

Axle/Differential

Market USA



### **Applicability**

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION				
2005 – 2013	Tacoma	Drive Type(s): 2WD, 4WD Engine(s): 1GR Transmission(s): 5AT VDS(s): JU4GN, JU62N, KU4HN, KU72N, LU42N, LU4EN, MU4FN, MU52N, TU4GN, TU62N, UU42N, UU4EN				

### Introduction

Some 2005 - 2013 model year Tacoma vehicles equipped with a 5 speed automatic transmission, may exhibit a whine noise from the rear differential between 50 - 60 mph (80 - 97 km/h). Use the following repair procedure to address this condition.

#### NOTE

This bulletin does NOT apply to Limited Slip Differential (LSD) or locking type rear differentials.

### **Warranty Information**

OP CODE	DESCRIPTION	TIME OFP		T1	T2
410101	R & R Rear Differential	2.4	41110-35A50	91	99

### **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.

### Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
41110-35A50	41110-35D10	Rear Differential Carrier Assembly	1
42181-34011	Same	Rear Differential Carrier Gasket	1

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### **Required Tools & Equipment**

REQUIRED MATERIAL	QUANTITY
Toyota Genuine Differential Gear Oil, or Equivalent, per Repair Manual	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.

### Repair Procedure

1. Confirm the condition.

Is there a whine type noise present between 50 – 60 mph (80 – 97 km/h) with light acceleration or on deceleration?

- YES Continue to step 2.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 2. Confirm the rear differential fluid level is correct.

Is the fluid level correct?

- YES Continue to step 3.
- NO Check for leaks, adjust fluid level and re-test. If whine noise is still present, proceed to step 3.
- Using ChassisEAR™, confirm the noise is loudest from the rear differential assembly.

Is the noise loudest from the rear differential assembly?

- YES Continue to step 4.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 4. Replace the rear differential assembly.

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

 2005 Tacoma: Drivetrain – Axle/Differential – "Differential Carrier Assy Rear (w/o Diff.lock): Overhaul"



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## Repair Procedure (Continued)

2006 Tacoma:

Drivetrain - Axle/Differential - "Differential: Rear Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"

2007 Tacoma:

Drivetrain - Axle/Differential - "Differential: Rear Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"

· 2008 Tacoma:

Drivetrain – Axle/Differential – "Differential: Rear Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"

2009 Tacoma:

Drivetrain – Axle/Differential – "Differential: Rear Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"

2010 Tacoma:

Drivetrain — Axle/Differential — "Differential: Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"

· 2011 Tacoma:

Drivetrain - Axle/Differential - "Differential: Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"

2012 Tacoma:

Drivetrain - Axle/Differential - "Differential: Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"

2013 Tacoma:

Drivetrain - Axle/Differential - "Differential: Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"

5. Test drive the vehicle and confirm the repair.

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