

Service Category	Drivetrain			
Section	Axle/Differential	Market	USA	Toyota Supports

#### 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

### **REVISION NOTICE**

April 9, 2015 Rev1:

• The Warranty Information and Parts Information sections have been updated.

Any previous printed versions of this bulletin should be discarded.

### 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		OFP	T1	T2
410101	R & R Rear Differential	2.4	41110-35A50 41110-35A51 41110-35D10 41110-35D11	91	99

#### Warranty Information (Continued)

#### **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**

PART NUMBER		PART NAME	
PREVIOUS	NEW	PARI NAME	
41110-35A50 41110-35A51 41110-35D10 41110-35D11	41110-35D12	Rear Differential Carrier Assembly	
42181	-34011	Rear Differential Carrier Gasket	
12157-10010		Gasket (for Rear Axle Housing Filler Plug)	
90301-83002		Ring, O (for Rear Axle Bearing Case)	
90310-58003		3 Seal, Oil (for Rear Axle Shaft)	

#### **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<sup>™</sup> 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.
- 3. Using ChassisEAR<sup>™</sup>, 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): <u>Overhaul</u>"
- 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): <u>Removal</u> / <u>Installation</u>"
- 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): <u>Removal / Installation</u>"

## **Repair Procedure (Continued)**

- 2010 Tacoma: Drivetrain – Axle/Differential – "Differential: Differential Carrier Assembly (w/o Differential Lock): <u>Removal / Installation</u>"
- 2011 Tacoma: Drivetrain – Axle/Differential – "Differential: Differential Carrier Assembly (w/o Differential Lock): <u>Removal / Installation</u>"
- 2012 Tacoma: Drivetrain – Axle/Differential – "Differential: Differential Carrier Assembly (w/o Differential Lock): <u>Removal / Installation</u>"
- 2013 Tacoma: Drivetrain – Axle/Differential – "Differential: Differential Carrier Assembly (w/o Differential Lock): <u>Removal</u> / <u>Installation</u>"
- 5. Test drive the vehicle and confirm the repair.