T-SB-0074-19 July 1, 2019



Rear Differential Whine/Groan Noise at 40 - 60 mph

Service

Category Drivetrain

Section Axle/Differential Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2014 - 2019	4Runner		

Introduction

Some 2014 - 2019 model year 4Runner vehicles may exhibit a whine or groan noise from the rear of the vehicle. This condition may occur while driving around 40 - 60 mph at a consistent speed, slight acceleration, or slight deceleration. This condition may be caused by rear differential vibration transferring through the chassis and body. Follow the Repair Procedure in this bulletin to improve this condition.

Production Change Information

This bulletin applies to 2014 – 2019 model year 4Runner vehicles with the condition described in the Introduction. The Production Change Effective VIN shown below defines which parts — pre-countermeasure or post-countermeasure — are applicable to the repair.

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
4Runner	Tahara	4WD	JTEBU5JR#K5687318

TOYOTA T-SB-0074-19 July 1, 2019 Page 2 of 8

Rear Differential Whine/Groan Noise at 40 - 60 mph

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
SU1905	Pre-countermeasure Vehicle (All Trim Except TRD Pro and Off Road)	5.0			
Combo A	If Equipped With Third-row Seat	0.5			
SU1906	Pre-countermeasure Vehicle (TRD Pro and Off Road)	2.5			
Combo A	If Equipped With Third-row Seat	0.5	41110-35C80	91	14
SU1907	Post-countermeasure Vehicle	2.3			
Combo A	If Equipped With Third-row Seat	0.5			
SU1908	Post-countermeasure Vehicle (2WD)	1.5			
Combo A	If Equipped With Third-row Seat	0.5			

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

Table 1. Pre-countermeasure Vehicles

GRADE	PART NUMBER		PART NAME	QTY	
GRADE	PREVIOUS	NEW	PARI NAME	Q 11	
All (Excluding TRD Pro and Off Road With Diff Lock)	41110-35C80		Carrier Assy, Differential	1	
	N/A	90560-12070	Spacer (Body Mass)	8	
All	52217-35180	52217-60070	Bolt, Body Mounting (Rear End)	2	
		58651-35050		1	
E Coptor (Add)	N1/A	58653-35010	Chart DD Floor Cilonoor	1	
5 Seater (Add)	N/A	58661-35010	Sheet, RR Floor Silencer	1	
		58663-35010		1	

TOYOTA T-SB-0074-19 July 1, 2019 Page 3 of 8

Rear Differential Whine/Groan Noise at 40 - 60 mph

Parts Information (continued)

Table 1. Pre-countermeasure Vehicles (continued)

CDADE	PART NUMBER		DADT NAME	OTV
GRADE	PREVIOUS	NEW	PART NAME	QTY
		58651-35050	Sheet, RR Floor Silencer	3
7 Seater (Add)	N/A	58653-35010		1
		58655-35010		1
Part Time 4WD (Add)	37110-35A90	37110-60B60	Shoft Agay Dropallar	1
Full Time 4WD (Limited Trim) (Add)	37110-35A80	37110-35A30	Shaft Assy, Propeller	1

Table 2. Post-countermeasure Vehicles

GRADE	PART NUMBER		PART NAME	QTY
GRADE	PREVIOUS	NEW	PARI NAME	QII
	N/A	90560-12070	Spacer (Body Mass)	8
All	52217-35180	52217-60070	Bolt, Body Mounting (Rear End)	2
Part Time 4WD (Add)	37110-35A90	37110-60B60	Shaft Assy, Propeller	1
Full Time 4WD (Limited Trim) (Add)	37110-35A80	37110-35A30	Snait Assy, Propeller	1

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*		TSADVUNIT	
Techstream 2.0	ADE	TS2UNIT	
Techstream Lite	ADE	TSLITEPDLR01	'
Techstream Lite (Green Cable)		TSLP2DLR01	

^{*}Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 14.10.028 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

TOYOTA T-SB-0074-19 July 1, 2019 Page 4 of 8

Rear Differential Whine/Groan Noise at 40 - 60 mph

Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a whine or groan noise when traveling 40 - 60 mph during slight acceleration or deceleration or at consistent speed?

- YES Continue to step 2.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 2. Check the VIN.

Is the vehicle build date pre-countermeasure or post-countermeasure?

- A. If pre-countermeasure, continue to step 3.
- B. If post-countermeasure, go to step 4.
- 3. Install the dampening pads.
 - A. Remove the third-row seat if equipped.

Refer to TIS, applicable model and model year Repair Manual:

- 2014 / 2015 / 2016 2019 4Runner:
 Vehicle Interior Seat "Seat: Rear No. 2 Seat Assembly: Removal"
- B. Lift the trunk carpet to access the metal floor of the trunk.

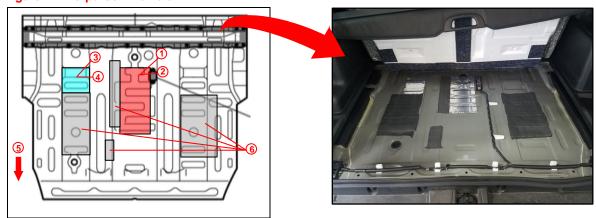
TOYOTA T-SB-0074-19 July 1, 2019 Page 5 of 8

Rear Differential Whine/Groan Noise at 40 - 60 mph

Repair Procedure (continued)

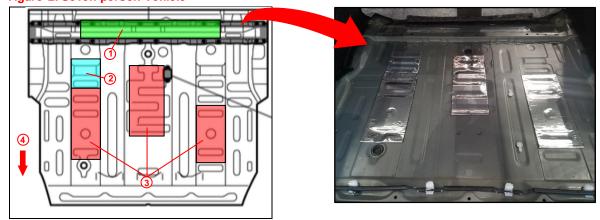
C. Install the dampening pads using the appropriate diagram.

Figure 1. Five-person Vehicle



1	Apply Dam pening Pad (58651-35050)
2	Apply Fit Pad (58661-35010) Directly on Top of Dampening Pad
3	Apply Dam pening Pad (58653-35010)
4	Apply Fit Pad (58663-35010) Directly on Top of Dampening Pad
5	Rear of Vehicle
6	Existing Dampening Material

Figure 2. Seven-person Vehicle



1	Apply Dampening Pad (58655-35010)
2	Apply Dampening Pad (58653-35010)
3	Apply Dampening Pad (58651-35050)
4	Rear of Vehicle

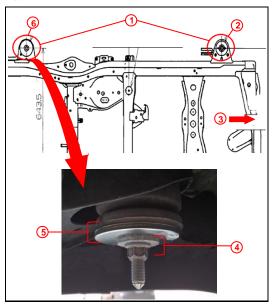
Rear Differential Whine/Groan Noise at 40 - 60 mph

Repair Procedure (continued)

- 4. Install body mass to cab mounts Nos. 3, 4, 5, and 6.
 - A. Remove both left-hand and right-hand deck trim side panels to access bolts.
 - B. On cab mounts Nos. 5 and 6, add body mass and replace bolts with extended bolts (52217-60070).
 - C. On cab mounts Nos. 3 and 4, add body mass and reuse bolts.
 - D. Reuse ALL washers and nuts.

Torque: 56N*m (553 kg*cm, 40 ft*lb)

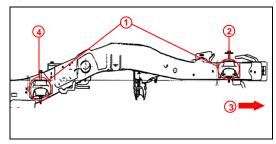
Figure 3.



1	Install Body Mass to Cab Mounts Nos. 4 and 6
2	Cab Mount No. 6*
3	Rear of Vehicle
4	Reuse Washer and Nut
5	Add Mass (2) (90560-12070)
6	Cab Mount No. 4

^{*}Change out cab mount No. 6 to longer bolt.

Figure 4.



1	Install Body Mass to Cab Mounts Nos. 3 and 5
2	Cab Mount No. 5*
3	Rear of Vehicle
4	Cab Mount No. 3

^{*}Change out cab mount No. 5 to longer bolt.

TOYOTA T-SB-0074-19 July 1, 2019 Page 7 of 8

Rear Differential Whine/Groan Noise at 40 - 60 mph

Repair Procedure (continued)

Check the VIN.

Is the vehicle build date pre-countermeasure or post-countermeasure?

- A. If post-countermeasure, go to step 6.
- B. If pre-countermeasure, replace the rear differential.

NOTE

Go to step 6 if the vehicle is TRD Pro or Off Road.

(1) Remove the rear differential.

Refer to TIS, applicable model and model year Repair Manual:

2014 / 2015 / 2016 – 2019 4Runner:
 Drivetrain – Axle/Differential – "Axle and Differential: Rear Differential Carrier Assembly (w/o Differential Lock): Removal"

NOTE

If the vehicle is 2WD, do NOT replace the propeller shaft.

(2) Install the NEW rear differential.

Refer to TIS, applicable model and model year Repair Manual:

- 2014 / 2015 / 2016 2019 4Runner:
 Drivetrain Axle/Differential "Axle and Differential: Rear Differential Carrier Assembly (w/o Differential Lock): Installation"
- (3) Go to step 7.

NOTE

Skip step 6 if the vehicle is 2WD.

- Replace the propeller shaft.
 - A. Remove the propeller shaft.

Refer to TIS, applicable model and model year Repair Manual:

- 2014 / 2015 / 2016 2019 4Runner:
 Drivetrain Drive Shaft/Propeller Shaft "Drive Shaft / Propeller Shaft: Propeller Shaft Assembly (for 4WD): Removal"
- B. Install the NEW propeller shaft.

Refer to TIS, applicable model and model year Repair Manual:

2014 / 2015 / 2016 – 2019 4Runner:
 Drivetrain – Drive Shaft/Propeller Shaft – "Drive Shaft / Propeller Shaft: Propeller Shaft Assembly (for 4WD): Installation"

TOYOTA T-SB-0074-19 July 1, 2019 Page 8 of 8

Rear Differential Whine/Groan Noise at 40 - 60 mph

Repair Procedure (continued)

- Reinstall the third-row seat if equipped.
 Refer to TIS, applicable model and model year Repair Manual:
 - 2014 / 2015 / 2016 2019 4Runner:
 Vehicle Interior Seat "Seat: Rear No. 2 Seat Assembly: Installation"
- 8. Confirm the whine/groan noise at 40 60 mph is improved.