

5-Speed Manual Transmission Clutch Difficult Engaging

Service Category Drivetrain

Section Clutch

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2005 – 2013	Tacoma	Engine(s): 2TR Transmission(s): 5MT VDS(s): KX22N, NX22N, NX4CN, NX4GN, NX62N, PX42N, PX4EN, TX22N, TX4CN, TX4GN, TX62N, UX42N, UX4EN

REVISION NOTICE

June 25, 2013 Rev1:

- Applicability has been updated to include 2012 – 2013 model year vehicles.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2005 – 2013 model year Tacoma vehicles equipped with a 5-speed manual transmission may exhibit a slipping feeling in all forward gears and reverse. Replacement of the clutch disk, clutch cover, flywheel, and clutch pedal turnover spring is required to repair the vehicle. Follow the repair procedure in this bulletin to address this condition.

Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	TRANSMISSION	DRIVETRAIN	CAB	PRODUCTION CHANGE EFFECTIVE VIN
Tacoma	5 Speed Manual	2WD	Regular	5TFNX4CN#DX021603
			Access	5TFTX4CN#DX026465
		4WD	Regular	5TFPX4EN#DX015170
			Access	5TFUX4EN#DX018637

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Warranty Information

OP CODE	DESCRIPTION	DRIVE-TRAIN	TIME	OFF	T1	T2
TC9018	R & R Clutch Disk, Clutch Cover, Flywheel, and Clutch Pedal Turnover Spring	2WD	4.1	31250-04090 31250-04091 31250-26230 31250-26231	22	12
TC9019		4WD	4.7			

APPLICABLE WARRANTY

- This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 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	QTY
PREVIOUS	NEW		
31210-04080 31210-04081 31210-04082 31210-04083 31210-04084 31210-26170 31210-26171 31210-26172	31210-35291	Clutch Cover Assembly	1
31250-04090 31250-04091 31250-26230 31250-26231	31250-60500	Clutch Disk Assembly	1
90949-03136	90949-03132	Turnover Spring	1
13405-75060		Flywheel Assembly	1
90910-02116		Flywheel Set Bolt	10

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Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Crankshaft Pulley Holding Tool*	09213-54015	1
Companion Flange Holding Tool*	09330-00021	1
Clutch Diaphragm Spring Aligner**	09333-00013	1
Clutch Guide Tool	09301-00210	1
Pilot Bearing Puller	09303-35011	1
Pilot Bearing Installer	09304-30012	1

* Essential SST.

** Special Order.

NOTE

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

REQUIRED MATERIAL	QUANTITY
Toyota Genuine Adhesive 1324, Three Bond 1324, or Equivalent	As Needed

Repair Procedure

1. Confirm the condition described in the Introduction.

Place the vehicle in every gear position (forward and reverse) and attempt to move the vehicle.

Does the vehicle move?

- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — Go to step 2.

2. Remove the manual transmission assembly to inspect the clutch disk and clutch cover.

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

- 2005 Tacoma:
Drivetrain – Manual Transmission/Transaxle – “Manual Transmission Unit Assy ([R155](#)) / ([R155F](#)): Replacement”

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Repair Procedure (Continued)

- 2006 – 2013 Tacoma:
Drivetrain – Manual Transmission/Transaxle – “R155/R155F Manual Transmission: Manual Transmission Assembly: Removal”
 - 2006 Tacoma: [R155](#) / [R155F](#)
 - 2007 Tacoma: [R155](#) / [R155F](#)
 - 2008 Tacoma: [R155](#) / [R155F](#)
 - 2009 Tacoma: [R155](#) / [R155F](#)
 - 2010 Tacoma: [R155](#) / [R155F](#)
 - 2011 Tacoma: [R155](#) / [R155F](#)
 - 2012 Tacoma: [R155](#) / [R155F](#)
 - 2013 Tacoma: [R155](#) / [R155F](#)
3. Does the clutch cover appear damaged, such as broken or excessively scored diaphragm spring fingers?
- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
 - **NO** — Go to step 4.
4. Remove the clutch cover and clutch disk assembly.
- Refer to TIS, applicable model year Repair Manual:
- 2005 Tacoma:
Drivetrain – Clutch – “Clutch Unit (R155/R155F): [Overhaul](#)”
 - 2006 – 2013 Tacoma:
Drivetrain – Clutch – “Clutch: Clutch Unit (for R155) / (for R155F): Removal”
 - 2006 Tacoma: [R155](#) / [R155F](#)
 - 2007 Tacoma: [R155](#) / [R155F](#)
 - 2008 Tacoma: [R155](#) / [R155F](#)
 - 2009 Tacoma: [R155](#) / [R155F](#)
 - 2010 Tacoma: [R155](#) / [R155F](#)
 - 2011 Tacoma: [R155](#) / [R155F](#)
 - 2012 Tacoma: [R155](#) / [R155F](#)
 - 2013 Tacoma: [R155](#) / [R155F](#)

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Repair Procedure (Continued)

5. Inspect the clutch disk friction surface.

Does the clutch disk friction material display damage such as missing or tearing of friction material on one or both sides of the clutch disk? See Figure 1.

- **YES** — Go to step 6.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

Figure 1. Clutch Disk Missing Friction Material



6. Replace the clutch disk, clutch cover, flywheel, and clutch pedal turnover spring.

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

- 2005 Tacoma:
 - *Drivetrain – Clutch – “Clutch Unit (R155/R155F): [Overhaul](#)”*
 - *Engine/Hybrid System – Engine Mechanical – “Engine Rear Oil Seal (2TR-FE): [Replacement](#)”*
- 2006 – 2013 Tacoma:
 - *Drivetrain – Clutch – “Clutch: Clutch Unit (for R155) / (for R155F): [Installation](#)”*
 - 2006 Tacoma: [R155](#) / [R155F](#)
 - 2007 Tacoma: [R155](#) / [R155F](#)
 - 2008 Tacoma: [R155](#) / [R155F](#)
 - 2009 Tacoma: [R155](#) / [R155F](#)
 - 2010 Tacoma: [R155](#) / [R155F](#)
 - 2011 Tacoma: [R155](#) / [R155F](#)
 - 2012 Tacoma: [R155](#) / [R155F](#)
 - 2013 Tacoma: [R155](#) / [R155F](#)

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Repair Procedure (Continued)

- 2006 – 2009 Tacoma:
Engine/Hybrid System – Engine Mechanical – “2TR-FE Engine Mechanical: Engine Rear Oil Seal: Removal / Installation”
 - 2006 Tacoma: [Removal](#) / [Installation](#)
 - 2007 Tacoma: [Removal](#) / [Installation](#)
 - 2008 Tacoma: [Removal](#) / [Installation](#)
 - 2009 Tacoma: [Removal](#) / [Installation](#)
 - 2010 – 2013 Tacoma:
Engine/Hybrid System – Engine Mechanical – “2TR-FE Engine Mechanical: Rear Crankshaft Oil Seal: Removal / Installation”
 - 2010 Tacoma: [Removal](#) / [Installation](#)
 - 2011 Tacoma: [Removal](#) / [Installation](#)
 - 2012 Tacoma: [Removal](#) / [Installation](#)
 - 2013 Tacoma: [Removal](#) / [Installation](#)
7. Reinstall the manual transmission assembly.

Refer to TIS, applicable model year Repair Manual:

- 2005 Tacoma:
Drivetrain – Manual Transmission/Transaxle – “Manual Transmission Unit Assy ([R155](#)) / ([R155F](#)): Replacement”
- 2006 – 2013 Tacoma:
Drivetrain – Manual Transmission/Transaxle – “R155/R155F Manual Transmission: Manual Transmission Assembly: Installation”
 - 2006 Tacoma: [R155](#) / [R155F](#)
 - 2007 Tacoma: [R155](#) / [R155F](#)
 - 2008 Tacoma: [R155](#) / [R155F](#)
 - 2009 Tacoma: [R155](#) / [R155F](#)
 - 2010 Tacoma: [R155](#) / [R155F](#)
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 - 2012 Tacoma: [R155](#) / [R155F](#)
 - 2013 Tacoma: [R155](#) / [R155F](#)

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Repair Procedure (Continued)

- 2005 Tacoma:
 - *Drivetrain – Clutch – “Clutch Pedal Sub-Assy: [Replacement](#)”*
 - 2006 – 2013 Tacoma:
Drivetrain – Clutch – “Clutch: Clutch Pedal: Removal / Installation”
 - 2006 Tacoma: [Removal](#) / [Installation](#)
 - 2007 Tacoma: [Removal](#) / [Installation](#)
 - 2008 Tacoma: [Removal](#) / [Installation](#)
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 - 2012 Tacoma: [Removal](#) / [Installation](#)
 - 2013 Tacoma: [Removal](#) / [Installation](#)
8. Test drive the vehicle and confirm normal operation.