T-SB-0194-17 Rev1 March 2, 2017

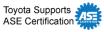


Lack of Power, High RPM Shift Point, Hesitation in Low Gears

Service

Category Drivetrain

Section Automatic Transmission/Transaxle Market USA



Applicability

YEAR(S) MODEL(S)		ADDITIONAL INFORMATION	
2017	Highlander	Transmission(s): 8AT	

REVISION NOTICE

December 11, 2020 Rev1:

The entire bulletin has been updated.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2017 model year Highlander vehicles may exhibit one or more of the following conditions:

- Lack of power.
- High RPM shift point at the 2 3 shift.
- · Hesitation in low gears.

Some 2017 model year Highlander vehicles with the stop and start feature may exhibit the following conditions:

- Extended crank condition.
- RPM fluctuation during or immediately following engine restart.

The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been modified. Follow the Repair Procedure in this bulletin to address these conditions.



Lack of Power, High RPM Shift Point, Hesitation in Low Gears

Production Change Information

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

MODEL	PLANT	DRIVETRAIN	STOP & START	PRODUCTION CHANGE EFFECTIVE VIN
Highlander	TMMI West	AWD	Υ	5TDJZRFH#HS395528
			N	5TDBZRFH#HS395760
		2WD	Υ	5TDKZRFH#HS203396
			N	5TDZZRFH#HS203483
	TMMI East	AWD	AWD Y 5TDJZRFH#HS5127	
		2WD	Y	5TDKZRFH#HS511358

March 2, 2017

NOTICE

This Bulletin ONLY applies to vehicles equipped with OLD type B1 (clutch) transmissions. Refer to TSB T-SB-0001-18 to confirm transmission is the old type before proceeding. Mismatched transaxle assembly hardware and ECM (PCM) software combinations may result in a harsh shift or shift flare. If this occurs after the original repair, additional ECM (PCM) replacement and reprogramming will be required. This additional ECM (PCM) replacement and/or reprogramming is NOT covered under warranty.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
800269	Reprogram ECM (PCM)	0.7	89661-0E830 89661-0E840 89661-0E850 89661-0E860	87	99

APPLICABLE WARRANTY

- This repair is covered under the Toyota Federal Emission Warranty. This warranty is in effect for 96 months or 80,000 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.



Lack of Power, High RPM Shift Point, Hesitation in Low Gears

Parts Information

DRIVETRAIN	STOP AND START	PART NUMBER		PART NAME	QTY
	STOP AND START	PREVIOUS	NEW	FART NAIVIE	QII
AWD	Y	89661-0E830	89661-0E834		
AVVD	N	89661-0E840	89661-0E844	Computer, Engine Control	
2WD	Y	89661-0E850	89661-0E854	(ECM/PCM)	_
2000	N	89661-0E860	89661-0E864		
_	_	00451-00001-LBL		Authorized Modification Labels	1

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*		TSADVUNIT	1
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 15.30.027 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit <u>techinfo.toyota.com</u> for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Battery Diagnostic Tool*	<u>DCA-8000P T</u>	1

^{*}Essential SST.

NOTE

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

NOTE

- The battery diagnostic tool MUST be used in Power Supply Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
- For details on how to use the battery diagnostic tool, refer to the <u>DCA-8000 Instruction Manual</u> located at TIS Diagnostics Tools & Equipment Battery Diagnostics.



Lack of Power, High RPM Shift Point, Hesitation in Low Gears

Calibration Information

MODEL	DRIVETRAIN	STOP & START	ECU TYPE	CALIBRATION ID		
				PREVIOUS	NEW	
Highlander	AWD	Υ	Engine	896630E43000	896630E43100/	
			Transmission	896650E09000	896650E09100	
		N	Engine	896630E44000	896630E44100/	
			Transmission	896650E10000	896650E10100	
	2WD	Y	Engine	896630E45000	896630E45100/	
			Transmission	896650E11000	896650E11100	
		N	Engine	896630E46000	896630E46100/	
			Transmission	896650E12000	896650E12100	

^{*}To determine whether the vehicle is before or after hardware change, reference <u>T-SB-0010-18</u>, *Transaxle Assembly and ECM (PCM) Software Confirmation*.

Repair Procedure

- 1. Confirm one or more of the following conditions exist:
 - · Lack of power.
 - High RPM shift point at the 2 3 shift.
 - Hesitation in low gears.

Does the vehicle exhibit ANY of the conditions listed above?

- YES Continue to step 2.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 2. Follow the procedures outlined in Service Bulletin No. <u>T-SB-0001-18</u>, *Transaxle Assembly and ECM (PCM) Software Confirmation*, confirm transmission and ECU (PCM) hardware match, and complete repairs as needed.