

High Transmission Fluid Temperature Warning Message

Service Category Drivetrain

Section Automatic Transmission/Transaxle

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2019 - 2021	Tundra	

Introduction

Some 2019 – 2021 model year Tundra vehicles may exhibit a “High Transmission Fluid Temp” warning message on the instrument cluster Multi-information Display (MID) when towing in tow/haul mode at highway speeds. The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been modified to address this drive mode condition. Follow the Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
800269	Reprogram ECM (PCM)	0.7	89661-#####*	87	74

*Warranty claim MUST be submitted with the correct 10-digit OFF. Choose the correct OFF for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

APPLICABLE WARRANTY

- This repair is covered under the Toyota Federal Emissions 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.

High Transmission Fluid Temperature Warning Message

Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
89661-0CS40 89661-0CS41	89661-0CW30	Computer, Engine Control	–
89661-0CS50 89661-0CS51	89661-0CW40		–
89661-0CS70 89661-0CS71 89661-0CS72	89661-0CW50		–
89661-0CS80 89661-0CS81 89661-0CS82	89661-0CW60		–
89661-0CT50	89661-0CW70		–
89661-0CT60	89661-0CW80		–
89661-0CT90	89661-0CW90		–
89661-0CU00	89661-0CX00		–
89661-0CV40	89661-0CX10		–
89661-0CV50	89661-0CX20		–
89661-0CV70	89661-0CX30		–
89661-0CV80	89661-0CX40		–
00451-00001-LBL			Authorized Modifications Labels

NOTE

- The ECM (PCM) should NOT be replaced as part of the Repair Procedure.
- Authorized Modifications Labels may be ordered in packages of 25 from the Materials Distribution Center (MDC) through Dealer Daily – Parts – Dealer Support Materials Orders.
- All vehicle configurations are NOT available, this service bulletin will be updated as s/w versions become available.

High Transmission Fluid Temperature Warning Message

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVI*	ADE	TSADVUNIT	1
Techstream 2.0		TS2UNIT	
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 16.20.027 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 techinfo.toyota.com for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Battery Diagnostic Tool*	DCA-8000P_I	1

*Essential SST.

NOTE

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

Calibration Information

STARTING SYSTEM	MODEL YEAR	DRIVETRAIN	FUEL TANK (GALLONS)	ENGINE	CALIBRATION ID	
					PREVIOUS	NEW
Key	2019	2WD	26	3UR-FE	30CP4000 30CP4100	30CT7000
		4WD			30CP4001 30CP4101	30CT7001
		2WD	38		30CP5000 30CP5100	30CT8000
		4WD			30CP5001 30CP5101	30CT8001
		4WD	26	3UR-FBE	30CP7001 30CP7101 30CP7201	30CT9001

High Transmission Fluid Temperature Warning Message

Calibration Information (continued)

STARTING SYSTEM	MODEL YEAR	DRIVETRAIN	FUEL TANK (GALLONS)	ENGINE	CALIBRATION ID	
					PREVIOUS	NEW
Key	2019	4WD	38	3UR-FBE	30CP8001 30CP8101 30CP8201	30CU0001
Push	2020	2WD	38	3UR-FE	30CQ6000	30CU2000
		4WD			30CQ6001	30CU2001
Key		2WD	26		30CQ9000	30CU3000
		4WD			30CQ9001	30CU3001
Key		2WD	38		30CR0000	30CU4000
		4WD			30CR0001	30CU4001
Push		2WD	38		30CS9000	30CU6000
		4WD			30CS9001	30CU6001
Key	2021	2WD	26	30CT1000	30CU7000	
		4WD		30CT1001	30CU7001	
		2WD	38	30CT2000	30CU8000	
		4WD		30CT2001	30CU8001	

Repair Procedure

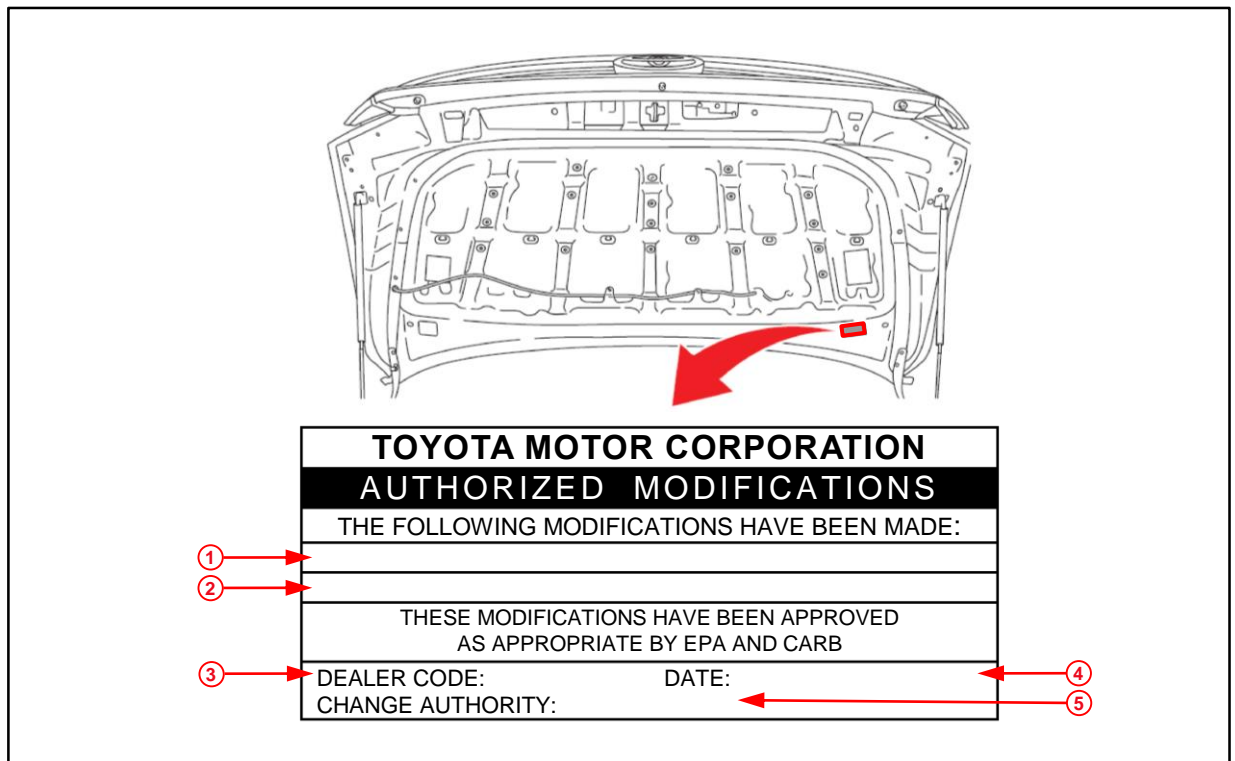
- Does the vehicle exhibit a “High Transmission Fluid Temp” warning message on the instrument cluster MID when towing in tow/haul mode at highway speeds?
 - YES** — Continue to step 2.
 - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

High Transmission Fluid Temperature Warning Message

Repair Procedure (continued)

2. Use Techstream to confirm if the ECM (PCM) calibration has been updated and check for the Authorized Modifications Label affixed to the vehicle in the location shown below. Is the calibration ID listed in Techstream and on the label the latest ECM (PCM) calibration?
 - **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
 - **NO** — Continue to step 3.

Figure 1. Location of Authorized Modifications Label on 2019 – 2021 Tundra



1	Replacement ECM (PCM) Part Number e.g., 89661-0CW30
2	New Calibration ID e.g., 30CT7000
3	Dealer Code

4	Date Completed
5	This SB Number

High Transmission Fluid Temperature Warning Message

Repair Procedure (continued)

- Flash reprogram the ECM (PCM).

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 station, refer to the [DCA-8000 Instruction Manual](#) located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in [T-SB-0134-16](#), *Techstream ECU Flash Reprogramming Procedure*, and flash the ECM (PCM) with the NEW calibration file update.

- Prepare and install the Authorized Modifications Label.
 - Using a permanent marker, enter the following information on the label:
 - ECM (PCM) part number [*Refer to the **Parts Information** section for the **NEW PART NUMBER***]
 - Calibration ID(s) [*Refer to the **Calibration Information** section for the **NEW CALIBRATION ID***]
 - Dealer Code
 - Repair Date
 - Change Authority [***This bulletin number***]
 - Install the Authorized Modifications Label onto the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
- Test-drive the vehicle to confirm proper operation.