

Sport Mode Cruise Control Logic Improvement

Service Category Engine/Hybrid System

Section Cruise Control

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2019	Corolla Hatchback	VDS(s): K4RBE Engine(s): M20 Transmission(s): CVT

Introduction

Some 2019 model year Corolla Hatchback vehicles equipped with a K120 Continuously Variable Transaxle (CVT) may exhibit a phenomenon which prevents the vehicle from accelerating past the driver set cruise speed during the following conditions.

- Cruise control system is engaged
- Drive mode selected: Sport
- Vehicle speed is 60 mph or greater
- Driving uphill - road grade 6% or greater

The Engine Control Module/ECM (SAE Term: Powertrain Control Module/PCM) logic has been modified to reduce the possibility of this condition occurring. 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 VIN shown below.

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
Corolla Hatchback	Tsutsumi	CVT	JTNK4RBE#K3023223

Sport Mode Cruise Control Logic Improvement

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1825	Reprogram ECM (PCM)	0.5	89661-1AA00	99	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.

Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
89661-1AA00	89661-1AA01	Computer, Engine Control (ECM/PCM)	–
00451-00001-LBL		Authorized Modifications Labels	1

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*.

Sport Mode Cruise Control Logic Improvement

Required Tools & Equipment

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

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 13.30.018 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
GR8 Battery Diagnostic Station*	00002-MCGR8	1

*Essential SST.

NOTE

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

Calibration Information

MODEL	ENGINE	CALIBRATION ID		VDS
		PREVIOUS	NEW	
Corolla Hatchback	M20A-FKS	8966312R1000	8966312R1100	K4RBE

Sport Mode Cruise Control Logic Improvement

Repair Procedure

1. Confirm the vehicle is unable to accelerate past the driver set cruise speed during ALL of the following conditions.
 - Cruise control system is engaged
 - Drive mode selected: Sport
 - Vehicle speed is 60 mph or greater
 - Driving uphill - road grade 6% or greater

Is the vehicle unable to accelerate past the driver set cruise speed during ALL of the conditions listed above?

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

2. Deactivate the cruise control system operation using ANY of the following methods.
 - Press the Cruise Cancel button.
 - Briefly press the brake pedal.
 - Place the vehicle into Normal drive mode.

Is the condition described in step 1 still present AFTER performing ANY of the methods listed above?

- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — Continue to step 3.

3. Using Techstream, perform a Health Check to determine if ANY Diagnostic Trouble Codes (DTCs) are stored.

Are ANY DTCs present?

- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — Continue to step 4.

Sport Mode Cruise Control Logic Improvement

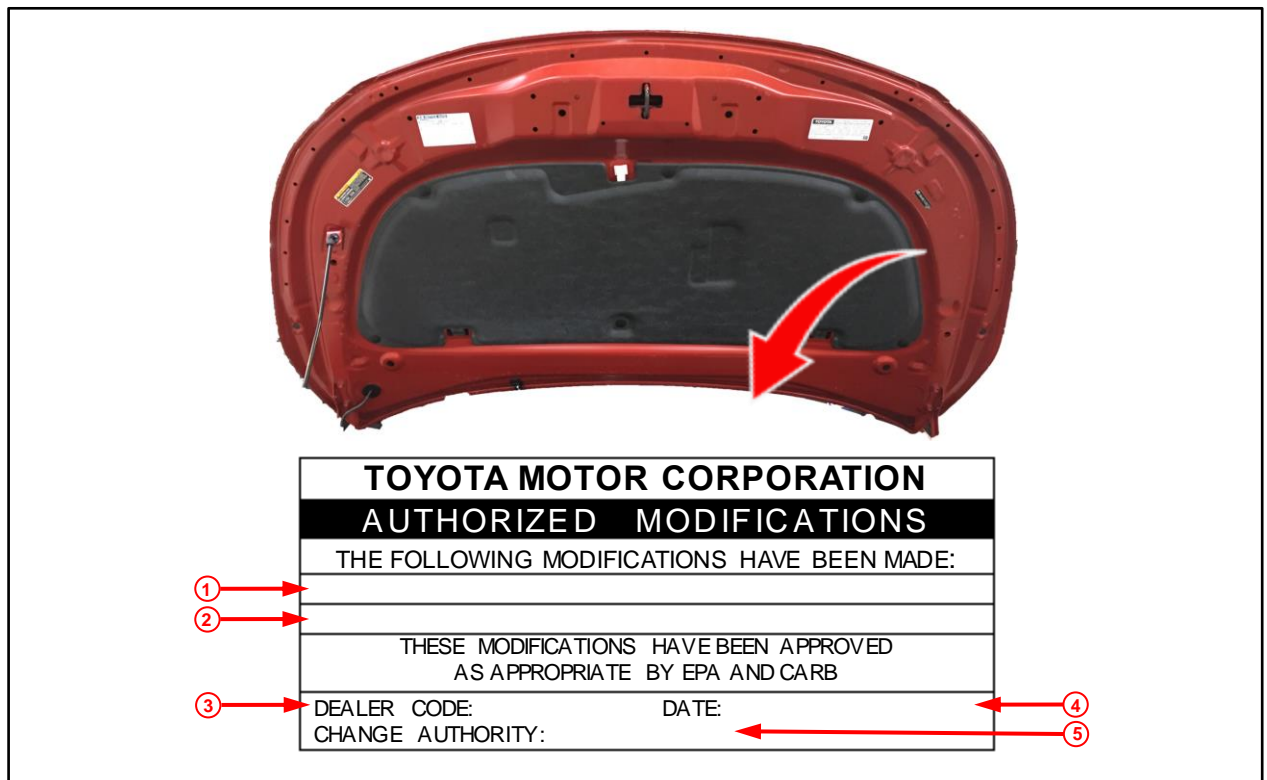
Repair Procedure (continued)

- Check for the Authorized Modifications Label affixed to the vehicle in the location shown below. Confirm if the ECM (PCM) calibration has been updated.

Is the calibration ID listed the latest ECM (PCM) calibration?

- YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- NO** — Continue to step 5.

Figure 1. Location of Authorized Modifications Label on 2019 Corolla Hatchback



1	Replacement ECM (PCM) Part Number (e.g., 89661-1AA01)
2	New Calibration ID (e.g., 8966312R1100)
3	Dealer Code

4	Date Completed
5	This SB Number

Sport Mode Cruise Control Logic Improvement

Repair Procedure (continued)

5. Flash reprogram the ECM (PCM).

NOTE

- The GR8 battery diagnostic station **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 GR8 battery diagnostic station, refer to the [GR8 Instruction Manual](#) located at TIS – *Diagnostics – Tools & Equipment – Battery Diagnostics*.

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

6. Prepare and install the Authorized Modifications Label.

A. 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***]

B. 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.

7. Test-drive the vehicle to confirm proper operation.