

A/C Inoperative and/or High Engine Temperature at a Stop

Service Category Engine/Hybrid System

Section Cooling

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2010 – 2011	Camry	Engine(s): 2AR VDS(s): BF3EK
2009 – 2013	Venza	VDS(s): BA3BB, BE11A, ZA3BB

NOTE

This bulletin only applies to vehicles that are NOT equipped with the Tow Package.

Introduction

Some 2010 – 2011 model year Camry vehicles equipped with the 2AR-FE engine and some 2009 – 2013 model year Venza vehicles equipped with the 1AR-FE engine may exhibit one or more of the following conditions:

- A/C inoperative while the vehicle is stopped.
- Rising engine temperature while the vehicle is stopped.

Production Change Information

This bulletin applies to:

- ALL 2010 – 2011 model year Camry vehicles.
- ALL 2009 – 2012 model year Venza vehicles.
- 2013 model year Venza vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	PLANT	ENGINE	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
Venza	TMMK Line 2	1AR-FE	2WD	4T3ZA3BB#DU067658
			4WD	4T3BA3BB#DU037398

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Warranty Information

OP CODE	DESCRIPTION	MODEL	TIME	OFF	T1	T2
EL1222	R & R Radiator Fan(s) / Recalibrate ECM (PCM) Engine	Camry	2.2	16361-0H090 16361-0H100	13	12
		Venza	2.6			
Combo A	R & R Cooling Fan Motor (if necessary)		0.1			

APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic 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.

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream* or Techstream Lite NOTE: Software version 7.20.041 or later is required.	ADE	TSPKG1 or TSLITEDLR01	1

NOTE

- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- The Diagnostic Tester is NOT recommended for flash reprogramming with this calibration file. Please use TIS Techstream or an approved J2534 interface to perform this update. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.



SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	00002-MCGR8	1

NOTE

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

* Essential SST.

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Parts Information

MODEL	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
Camry	89661-06N70	89661-06N71	Computer, Engine Control (ECM/PCM)	–
	89661-06N80	89661-06N81		–
	89661-06J13	89661-06J14		–
	89661-06J43	89661-06J44		–
	89661-06J22	89661-06J23		–
Venza	89661-0T052	89661-0T053		–
	89661-0T062	89661-0T063		–
	89661-0T110	89661-0T111		–
	89661-0T120	89661-0T121		–
–	16361-0H090	16361-0V400	Fan	1
–	16361-0H100	16361-0V410	Fan, No. 2	1
–	16363-0H010	Same	Motor, Cooling Fan	1*
–	16363-0H070	Same	Motor, Cooling Fan, No.2	1*
–	00272-SLLC2	Same	Super Long Life Coolant	As Needed
–	00451-00001-LBL	Same	Authorized Modification Labels	1

* Replace Cooling Fan Motor ONLY if necessary. Refer to Repair Procedure.

NOTE

- The ECM (PCM) should NOT be replaced as part of the repair procedure.
- Authorized Modification Labels may be ordered in packages of 25 from the Materials Distribution Center (MDC) through Dealer Daily – Dealer Support Materials Orders.

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Calibration Information

MODEL	TRANS	EMISSION SPECIFICATION	MODULE	PREVIOUS CALIBRATION ID	NEW CALIBRATION ID
2010–2011 Camry	AT	PZEV	ECM	333G5000	333B6400
				333B6000	
				333B6100	
				333B6200	
				333B6300	
		ECT	895363315000	895363328000	
			895363319000		
		ULEV2	ECM	333G4000	333B5400
				333B5000	
				333B5100	
	333B5200				
	333B5300				
	ECT	895363315000	895363328000		
		895363319000			
	MT	ECM	30669000	30669300	
30669100					
30669200					

MODEL	MODEL YEAR	DRIVE	PREVIOUS CALIBRATION ID	NEW CALIBRATION ID
Venza	2009–2012	FWD	30T03000	30T06300
			30T06000	
			30T06100	
			30T06200	
		4WD	30T04000	30T07300
			30T07000	
			30T07100	
			30T07200	
	2013	FWD	30T11000	30T11100
		4WD	30T12000	30T12100

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Repair Procedure

1. Confirm the condition per the Introduction.
2. Inspect the radiator cooling fan blades for separation from the cooling fan motor.

Are the fan blades separated?

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

Figure 1.



3. Replace the cooling fans.

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

- 2010 Camry:
Engine/Hybrid System – Cooling – “2AR-FE Cooling: Radiator: Cooling Fan Motor: [Removal / Installation](#)”
- 2011 Camry:
Engine/Hybrid System – Cooling – “2AR-FE Cooling: Radiator: Cooling Fan Motor: [Removal / Installation](#)”
- 2009 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [Removal / Installation](#)”
- 2010 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [Removal / Installation](#)”
- 2011 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [Removal / Installation](#)”
- 2012 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [Removal / Installation](#)”
- 2013 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [Removal / Installation](#)”

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Repair Procedure (Continued)

4. Inspect the cooling fan motors by spinning the shaft by hand checking for any abnormalities, and then check the amperage draw according to the Repair Manual.

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

- 2010 Camry:
Engine/Hybrid System – Cooling – “2AR-FE Cooling: Cooling Fan Motor: [On-vehicle Inspection](#)”
 - 2011 Camry:
Engine/Hybrid System – Cooling – “2AR-FE Cooling: Cooling Fan Motor: [On-vehicle Inspection](#)”
 - 2009 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [On-vehicle Inspection](#)”
 - 2010 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [On-vehicle Inspection](#)”
 - 2011 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [On-vehicle Inspection](#)”
 - 2012 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [On-vehicle Inspection](#)”
 - 2013 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [On-vehicle Inspection](#)”
5. If there are any abnormalities found with the cooling fan motors, replace the cooling fan motors.

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

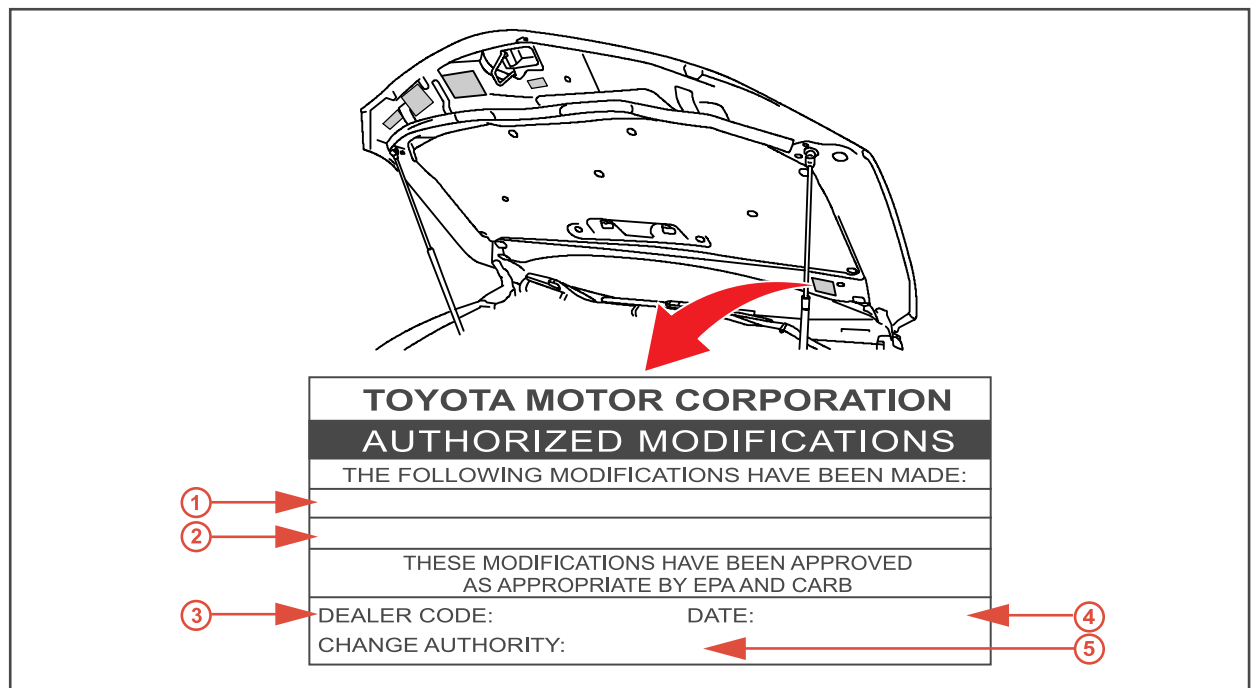
- 2010 Camry:
Engine/Hybrid System – Cooling – “2AR-FE Cooling: Radiator: Cooling Fan Motor: [Removal / Installation](#)”
- 2011 Camry:
Engine/Hybrid System – Cooling – “2AR-FE Cooling: Radiator: Cooling Fan Motor: [Removal / Installation](#)”
- 2009 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [Removal / Installation](#)”

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Repair Procedure (Continued)

- 2010 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [Removal / Installation](#)”
 - 2011 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [Removal / Installation](#)”
 - 2012 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [Removal / Installation](#)”
 - 2013 Venza:
Engine/Hybrid System – Cooling – “1AR-FE Cooling: Cooling Fan Motor: [Removal / Installation](#)”
6. Check for the Authorized Modifications Label affixed to the vehicle in the location shown in Figures 2 and 3. Confirm if the ECM (PCM) calibration has been updated. If the calibration ID listed is NOT the latest ECM (PCM) calibration — go to step 7.

Figure 2. Location of Authorized Modifications Label on 2010 – 2011 Camry



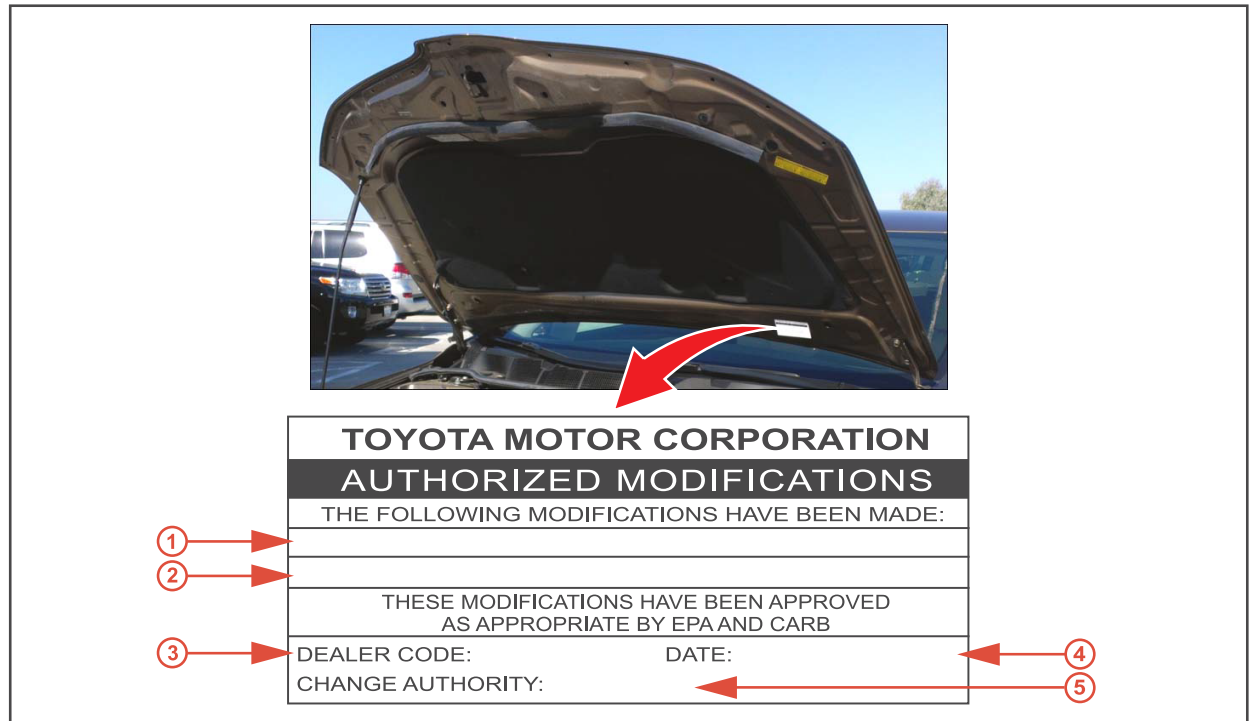
1	Replacement ECM (PCM) Part Number (i.e., 89661-06N71)
2	New Calibration ID(s) (i.e., 333B5400)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 3. Location of Authorized Modifications Label on 2009 – 2013 Venza



1	Replacement ECM (PCM) Part Number (i.e., 89661-0T053)
2	New Calibration ID(s) (i.e., 30T06300)
3	Dealer Code

4	Date Completed
5	This SB Number

7. Flash reprogram the ECM (PCM).

NOTE

- The GR8 Battery Diagnostic Station **MUST** be used in Power Supply Mode to maintain battery voltage at 13.5 volts while flash reprogramming the vehicle.
- For details on how to use the GR8 Battery Diagnostic Station, refer to the [GR8 Instruction Manual](#) located on the Technical Information System (TIS), *Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin No. [T-SB-0064-10](#), “Techstream ECU Flash Reprogramming Procedure”, and flash the ECM (PCM) with the NEW calibration file update.

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Repair Procedure (Continued)

8. Install the Authorized Modifications Label.
 - A. Using a permanent marker, enter the following information on the label:
 - ECM part number [*Refer to the **Parts Information** section for the **CURRENT PART NUMBER***]
 - Calibration ID(s) [*Refer to the **Calibration Identification Chart** for the **NEW CALIBRATION ID***]
 - Dealer Code
 - Repair Date
 - Change Authority [***This bulletin number***]
 - B. Affix the Authorized Modifications Label to the vehicle at the location shown in Figures 2 and 3. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
9. Verify the vehicle operates properly and the A/C functions normally.