

Service

Category Steering

Section	Power Assist Systems	Market USA	Toyota Supports
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Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2022 - 2023	Tundra, Tundra HV		
2021 - 2023	Venza HV		
2023	bZ4X, Corolla, Corolla Cross, Corolla Cross HV, Corolla HV, Crown, GR Corolla, Prius, Sequoia HV		

REVISION NOTICE

March 15, 2023 Rev1:

- Applicability has been updated to include 2022 2023 model year Tundra, Tundra Hybrid, and Venza Hybrid vehicles and 2023 model year bZ4X, Corolla, Corolla Cross, Corolla Cross Hybrid, Corolla Hybrid, Crown, GR Corolla, Prius, and Sequoia Hybrid vehicles.
- The Introduction section has been updated.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2021 – 2023 model year Toyota vehicles may require the download and installation of vehicle specific software or configuration software when the Electronic Control Unit (ECU) is replaced. Techstream software has been modified to indicate when configuration software is required. A new Configure column has been added to the Techstream Health Check Results screen to show when configuration software is available for a specific ECU. Follow the Operation Procedure in this bulletin to complete the ECU Software Configure Process.

Introduction (continued)

Refer to the applicability chart below for a list of Models and ECUs that will require configuration software when the specified ECU is replaced:

YEAR(S)	MODEL(S)	ECU(S) REQUIRING CONFIGURATION SOFTWARE
	bZ4X	Airbag / Body / Brake / HV / MG
	Corolla / Corolla HV	Airbag / Body / EMPS / Engine / HV / Inverter / Power Distribution Box
	Corolla Cross / Corolla Cross HV	Airbag / Body
2023	Crown	Absorber Control / Airbag / ANC / Body / Brake / ECM / EMPS / HV
2020	GR Corolla	4WD / Airbag / Body / EMPS / Engine / Power Distribution Box
	Prius	Airbag / Blindspot / Body / Engine / EMPS / Front Side Radar / HV / Inverter
	Sequoia HV	Airbag / ANC / Body / Brake / ECT / EMPS / Engine
2022 – 2023	Tundra / Tundra HV	ANC / Body / Brake / ECT / EMPS
2021 – 2023	Venza HV	Body / EMPS

NOTE

ECU is a Toyota term used to describe integrated computerized devices responsible for managing the operation of a system or subsystem. In this bulletin, ECU is used as a generic label for the following SAE J1930 standard references:

- Powertrain Control Module (PCM).
- Engine Control Module (ECM).
- Transmission Control Module (TCM).
- Any other Toyota specific control unit.

Warranty Information

[OP CODE	DESCRIPTION	TIME	OFP	T1	T2
	N/A	Not Applicable to Warranty	-	-	-	-

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVI*		TSADVUNIT	
Techstream 2.0		TS2UNIT	4
Techstream Lite	ADE	TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2022.04.004.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

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.

Operation Procedure

1. AFTER ECU replacement, connect Techstream, select the applicable vehicle and options, and select Next.

Figure 1.

Techstream (Ver 15.20.015)		- 🗆 X
File Function Setup TIS		
Connect to Vehicle Open Scan Data File Launch TIS New Users Demo Check for Scantool Updates Generic OBD II Software Registration User Selection Language Selection Advanced Function	Vehicle Connection Wizard(\$301-06) Select the Information and press Next Required Information: Division: TOYOTA Model: Venza HV ModelYear: 2021 Engine: A25A-FXS Option:	
	Optional Information:	
	VIN:	
	Memo:	
Log Out	History Help <back next=""> Cancel</back>	:ion
Ver 15.20.015		
Subscription Expiration 268d 04h 00m		
S200-01	VIM - MongoosePro MFC2 MongoosePro MFC2 J2534 Library v1.7.2.0 De	fault User //

Operation Procedure (continued)

2. Perform a Health Check. During the Health Check, Techstream will automatically detect the replacement ECU needs configuration software. On the Health Check Results page, select Yes in the Configure column to begin the configuration software download process.

tion Setup TIS User Help Select Stored Data										
enza HV XS Health Check Results - Health Check does not display live data.							E/		Campaig PERMAN	-
Changes in vehicle condition will not update au To update Health Check, click the Refresh buttor	tomatically. a on the bottom of the Healt) Check screen.					Ex	JU Security N	cy	
File Notes	Г	DTC F	Related Inf	ormation	1	_				
lealth Checl Data 1-20, System	Monitor Status	DTC	Curr Conf	Pend	Hist F	iled	RoB	Calibration	Update	Configure
Data 2-20: Data 3-20: Engine	Com	P261093	X	X		X		8955F5000100	No	Yes
			_			_			No	100
EMPS			_			_	-	8965F4801000	No No	Yes
		U023287	X			-		8821F50010A0	No	<u> </u>
		U023387	X			_	-	00211 30010A0	NU	-
Clearance Warning		U117787	X			-				No
and a state of the		U117887	X			-	- H			
		U131157	X							1
Main Body								8922F4201001	No	Yes
Transmission							-	-		
Hybrid Control								8821F50010A0	No	No
Central Gateway								3911F0801000	No	No
Gear Shift Control Module						\rightarrow	\rightarrow	8821F50010A0	No	
			+		\rightarrow	+	+			
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Vint									-	-

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Replacement ECU Software Configure Process

Operation Procedure (continued)

3. Login to TIS.

Figure 3.

Toyota Dealership Users Select Region Code 11 - Los Angeles User ID Technician 1 Password Remember me Remember me	Welcome to	Select Language English Français Español Select User Type
Remember me I have read and accepted	TENER	Select Region Code
Login		Terms and Conditions

4. Enter a password for secondary authentication and select Login.

Figure 4.

ECU Configure Software	
Receive ECU Configure Software User ID: Technician 1 Password: Clear Login Switch User	

5. When the ECU Configure Software confirmation screen is displayed, return to Techstream.

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-	. Э		-	-	-

ECU Configure Software
User ID: Technician 1 Technician Name: Technician 1 Distributor Code: 11111 Distributor Name: TMNA Dealer Code: 12345 Dealer Anem: Toyota Vehicle VIN: 12345678912345678 Software ID: 1234bc123a
ECU Configure Software has been requested. This process may take several minutes. Please return to Techstream to continue.

Operation Procedure (continued)

- 6. Has the configuration software been previously downloaded?
 - YES Continue to step 7.
 - NO Select Next as shown in the figure below and continue to step 7.

Figure 6.

Techstream (Ver 15.20.41)	11) - 12165									-	o x
File Function Setup T	TIS User Help										
System Select Stored	d Data										
2021 Venza HV A25A-FXS	Health Check Results										n Status: ENT: <mark>YES</mark>
000163 mile	Health Check does not display live data. Changes in vehicle condition will not update auto To update Health Check, click the Refresh button		Ith Check screen.					E	CU Security K	ey: -	
2021 Venza HV File Notes	Enhanced Generic		DTC Re	lated Inf	ormation						
 Health Checl Data 1-202 	System	Monitor Software as a Part (\$325-09	DTC	Curr	Pend		<u>Test</u> Failed	RoB	Calibration	Update	Configure ^
Data 2-20; Data 3-20; Data 4-20;	Engine	Solution as a Port (SSES OF	,		X		X		8955F5000100	No No	<u>Yes</u>
Error Report	EMPS		wnload. the screen for download						8965F4801000	No No	Yes
		will be opened.	o download the file, then						8821F50010A0	No	
	Clearance Warning	press "Output" and									No
	Main Body Transmission	Next	Dutput Exit	1 F				•	8922F4201001	No	No
	Hybrid Control Central Gateway					_	_		8821F50010A0 3911F0801000	No No	No
	Gear Shift Control Module								8821F50010A0	No	
Sort											
Expand>>											
TIS Search											×
Print							ECU		DTC		
Back	2020/05/14 8:47:06					•	200			M	
5309-06									Default L	ser	DLC 3 💧

NOTE

Selecting Output will display a list of the required configuration software for each ECU. This feature is available to print the list of required ECU software when needed.

Operation Procedure (continued)

7. Downloading the software may take several minutes. When the download is complete, select Next to start the Calibration Update Wizard (CUW).

Figure 7.

System Select Store	d Data													
2021 Venza HV A25A-FXS	Health Check Results								Campaign Status: PERMANENT: YES					
000163 mile	 Health Check does not display live data. Changes in vehicle condition will not update automatically. To update Health Check, click the Refresh button on the bottom of the Health Check screen. 								E	CU Security K	ey: -			
2021 Venza HV	Enhanced Generic													
File Notes				DTC Rel	ated Inf	ormation	1							
Data 1-202	System		Monitor Status	DTC	Curr Conf	Pend	<u>Hist</u>	Test Failed	RoB	Calibration	Update	Configure ^		
Data 2-20; Error Report	Engine	Software as a Part	t (\$325-13)	P261093	X	Х		X		8955F5000100	No No	Yes		
	EMPS						_			8965F4801000	No No	Yes		
			ile has been ext", reprogra	downloaded. Imming will be started.						8821F50010A0	No			
	Clearance Warning								•			No		
			Ne	d										
	Main Body	_							•	8922F4201001	No	No		
	Transmission Hybrid Control				_				•	8821F50010A0	No	No		
	Central Gateway									3911F0801000	No	No		
	Gear Shift Control Module									8821F50010A0	No			
							_							
Sort														
Expand>>														
TIS Search							_					v		
Print								ECU		DTC				
Back	2020/05/14 8:04:29						_	_]	Default U		DLC3		

8. Refer to Service Bulletin No. <u>T-SB-0107-20</u> *ECU Flash Reprogramming With Security Signature* and complete the programming as instructed there.

Operation Procedure (continued)

9. When programing is complete, Techstream will send the updated vehicle information to TIS. Select Next.

Figure 8.

Techstream (Ver 15.20.41 File Function Setup T						_		<		
System Select Stored										
2021 Venza HV A25A-FXS 000163 mile Input VIN 2021 Venza HV File Notes Health Checl	Health Check Results - Health Check does not display live data Changes in vehicle condition will not update - To update Health Check, click the Refresh b Enhanced Generic	ces not display live data. icle condition will not update th Check, click the Refresh b When you press "Next" GTS starts communication			Campaign Status: PERMANENT: YES ECU Security Key: -					
Data 1-20; Data 2-20; ⊛ Error Report	System Engine EMPS Clearance Warning Main Body Transmission Hybrid Control Central Gateway Gear Shift Control Module			ed	Calibration 8955F5000100 8955F4001000 8955F4001000 8821F50010A0 8822F4201001 8822F50010A0 3911F0801000 8821F50010A0	Update No No No No No No No No No	Configure Yes No No No No No	^		
Sort Expand>>		Next >						~		
Print Back	2020/05/14 8:04:29		EC	U.	Default			>		

10. Enter a password for secondary authentication and select Login.

Figure 9.

ECU Configure Software	
Update ECU Configure	Software
User ID: Technician 1 Password:	
Clear Login Switch User	

Operation Procedure (continued)

11. Return to Techstream when the ECU Configure Software confirmation displays, as shown below.

Figure 10.

ECU Configure Software	
User ID: Technician 1 Technician Name: Technician 1 Distributor Code: 11111 Distributor Name: TMNA Dealer Code: 12345 Dealer Name: Tovota Vehicle VIII: 1234556785912345578	
Software In: 1123abc123a	

12. Once Vehicle Information has been sent to TIS, select Exit, clear any DTCs that may have been set, and perform a final Health Check to confirm no additional software updates are available.

Figure 11.

2021 Venza HV A25A-FXS	Health Check Results						on Status ENT: YES				
000163 mile	- Changes in vehicle condition will not update	Send Vehicle Information (\$326-03) Help	ECU Security Key: -								
2021 Venza HV File Notes	To update Health Check, click the Refresh by Enhanced Generic Generic										
 Health Check Data 1-20; 	System		<u>Test</u> Failed	RoB	Account of the second	Update	Configure				
	Engine		X		8965F4801000	No No	Yes				
				-	8821F50010A0	No					
	Clearance Warning			•			No				
	EMPS	10 A		•	8955F5000100	No	Yes				
		-	1		8922F4201001	No	No				
	Main Body Transmission	-			8922F4201001	No	NO				
	Hybrid Control				8821F50010A0	No	No				
	Central Gateway				3911F0801000	No	No				
	Gear Shift Control Module				8821F50010A0	No					
Sort											
Expand>>		Exit									
Print Back			ECU		DTC						