

Load Configuration Data

Service

Category	Engine/Hybrid System
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Section	Engine Control	Market USA	Toyota Supports
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Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2016 - 2017	Yaris SD MEX-Prod	

NOTE

This bulletin applies to vehicles sold in Puerto Rico ONLY.

Introduction

This bulletin details the procedure for loading configuration data (also known as as-built data) in the ECUs of the Yaris SD. When replacing one of the ECUs listed below, the configuration data must be loaded into the ECU. It is NOT recommended to swap ECU's between vehicles.

- PCM (Engine ECU) •
- TCM (Transmission ECU) •
- IC (Instrument Cluster or Combination Meter ECU) •
- SSU (Smart Key ECU)
- RCM (Restraint Control Module/Airbag ECU) •

There are 2 different ways to load configuration data into a new ECU:

 The data must be saved from the old ECU to load into the NEW ECU. This method is used when an ECU requires replacement, however you can still communicate with the ECU and read the existing As-built Data. This is the preferred method and should be attempted first, as it will ensure that the current ECU calibration is reinstalled on the ECU after repair (for TCM and PCM). Downloading the calibration from the server in the step below will load the original calibration as it was built from the factory (for TCM and PCM).

Follow steps 1 – 8 for instructions on how to save the data. Once at step 8, start over at step 1 after replacing the ECU to load the data. You can download the data from the server. Follow ALL the steps in the repair procedure to load data from the server into the ECU.

2. You can download the data from the server. This method is used when you can no longer communicate with the ECU, or the RM has instructed you to re-load As-built data without replacing the ECU.

Follow ALL the steps in the repair procedure to load data from the server into the ECU.

Warranty Information

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

Required Tools & Equipment

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

* Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 11.10.034 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Repair Procedure

1. Connect Techstream to the vehicle.

Figure 1.



Repair Procedure (Continued)

2. Select the correct Division > Model > Model Year.

Figure 2.

Techstream (Ver 10.30.025)		
File Function Setup 185 User Help		
Connect to Vehicle		
Child Control Party Party	Vehicle Connection Widard \$300-DK	
Coper Scartoaarse	Select the information and press Next	
Launch TIS	Required Information	ANDA
New Users Demo	Division:	
Church for Scanding	Model	-9/
Updates		
Generic 080 I	2016	LEV I
Sotware	Engene P5	100
Registration	Option	
Selection		1000 / MK
Language		X
Advanced		
Diagnosiis	Optional Information:	
	VIIC	
and the second		
	Netro.	
Leg Ovt	-	
	Harry L. Harry L. Stars L. Marry L. Course	
Ver 10.30.025	These tests Cance	
Subscription Expiration 267d 00h 51m	TOYOTA OL	exus @scion
VIM - Mongo	sefto MPC Morgooetho MPC (2534 Library v1.1.12.0	Default User

Repair Procedure (Continued)

 Select the ECU of the system you are loading configuration data for. Figure 3.

6	System Selection Menu Select desired system and then press the a System Yellow = ECU status unknow System White = ECU communication	rrow button to access the ECU m.		
Health Check	"System White w/Asterisk = ECU not "System Light Blue w/Asterisk = ECU All ECUs Powertrain Chassis B	supported or not responding, communication OK in past times but no lody Electrical	K responding now.	
Customize	Engine	Transmission	ABS/DSC/TCS	_
Setting	Electronic-Controlled Power Steering	Main Body	Combination Meter	
ECU	Smart Key	Power Source Control	Restraint Control Module	
TIS Function				

4. Select Utility.

Figure 4.

1 Techstream (Ver 10.3022	S)-11411	1 Carlos
File Function Setup TI	i Uter Help	
System Select Stored	Data Engine Live	
2016 P5		
Ingue VIN Trouble Codes		
Data List Active Test		
Monitor Ubiley		
(Tow Desilier		
	NexTip	
TIS Search Print	Lost in a sea of parameters? Try a customized data list. Glick here to com more.	

Repair Procedure (Continued)

5. Select Configuration.

Figure 5.

F Techstream (Ver 10.30)	025) - 11611		
File Function Setup	TIS User Help		
System Select Store	d Data Engine Live		
2016 P5	Utility Selection Menu Select desired Utility and then press Next button.		
	Configuration	DTC Store History (Engine)	A
	Ney-on Crighte Norming Self-Test	Oil Life Monitor	
Input VIN	Oil Maintenance Monitor	On-Demand Self-Test	
	Smart Key Function	Special Operations and Control History	
Trouble Codes	Customize		
Data List			
Active Test			
Monitor			
Utility			
Dual Data List			
			A
TIS Keywood			
the regenera	1		*
Print Close			
5000-01 Engine	,	Default Us	e DLC 3

6. Follow the prompts on the Utility screens.

Figure 6.

1016 25	Utility Select	Configuration (CNE-01-001)	1
out VIII Trouble Codes Data Ligt Active Test Monitor Utility Court Clairs List	Configuration Key-On Engine R Oil Maintenance I Smart Key Funct Oustomize	This function is used to save the configuration data before ECU replacement and to write the saved configuration data to replaced ECU. After ECU replacement, Engine and Transmission ECU need to be reprogramed. Please follow instructions of this function.	History
TIS Keyword		Next > Exit	

Repair Procedure (Continued)

7. If you are saving the current configuration data to load into a new ECU, select "Before ECU Replacement" and select "Next". This will save the data currently on the ECU.

If you have installed the NEW blank ECU and have either saved the old data OR want to download the data from the server, OR the RM has instructed you to load configuration data on an old ECU, select "After ECU Replacement" and select "Next."

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_	. ~		ro	
-	IU	L	I E	
		-		
	_			

016 5	Utility Select		
-	Select desired Util	ornguistion (Cre-ol-otu)	Help
put VNI	Configuration Key-On Engine R Oil Maintenance I Smart Key Funct	Select an operation.	History
Trouble Codes Data List	Customize	C Refere ECII Replacement	
Active Test		Belore 200 Replacement	
Monitor		After ECU Replacement	
Dow Date 144			
TIS Keyword	1	< Back Next > Exit	

Repair Procedure (Continued)

8. Enter the 17 digit VIN of the vehicle being worked on.

Figure 8.

016 75	Utility Select	Configuration (CNF-00-007))	
Trouble Codes	Configuration Key-On Engine R Or Maintenance I Smart Key Funct Customize	Input VIN.		Help	History	
Active Test Monitor Using Dyel Data Lim		3MYDLBZV6GY	Input			
TIS Keyword		< Back	Next >	Exit		

Repair Procedure (Continued)

9. If you are loading configuration data for the PCM or TCM, a download window will open prompting the download of the calibration for that vehicle. Select *Open* to open the Calibration Update Wizard (CUW).

If you are loading data for any other system, skip to step 12.

Figure 9.

Utility Select d	Selection Monut Configuration (CNF-02-008) leared Ubi		Help	1	
Key-O Of Ma Smat	View and track your downloads	Search	h downloads	(OTH)	P
Ve Codes Custon	Rame	Location	Actions		
ta List	S-0002-15_P_cuw 1.03 MB Build by the com	Do you want to open or save this file?	Open	Seve -	
toritor	20150408162_zip 517 bytes tiszteyeta.com	Downloads		Open +	
Data List					
			Quite	0	
	Options		Chear bitt	Close	ACR -

Repair Procedure (Continued)

10. Follow the instructions for CUW. Please see TSB <u>T-SB-0012-13</u> Techstream ECU Flash Reprogramming Procedure for more details.

Figure	10.
f Techstream	(Ver 10.30.025) - 1

16	
	Utility Selection (CNF-01-006)
	Select desirer Calibration Update Witard - Screen \$701-01
1.170	Key-On
	Of Man Smart N Vehicle ECU
Trouble Codes	Calibration Undate Wizard
Data List	Calibration opdate vitzard
Active Test	
	Versice 8.20.1.116
Monitor	Welcome to Califordia Opdate Wicard This application is designed for professional automotive technicians who senice Toyota, Lexus, and Scion vehicles.
United	
	NOTE: If you are using a serial mouse, either plug the diagnostic tester into a different COM port or disconnect the serial mouse and reboot your machine.
Duar Data Los	
	Engish Cancel
	Copyright (C) 2000-2005 TOTOTA MOTOR CORPORATION: All Rights Reserved.
	Options Clear list Close
TIS Keyword	

Repair Procedure (Continued)

11. Once the calibration has been loaded into the vehicle, select Finish to close CUW.

NOTE

The procedure is not complete yet. Continue through the bulletin.

Figure 11.

2016 P5	Utility Sel	Configuration (CNF-01-008)			
	Select desirer	Calibration Update Wicard - Screen 5701-26		and the second second	
ouble Codes Data List	Key-On Eng Oil Maintens Smatt Key F Customize	Reprogramming successful ! Please turn IG off Please confirm that calibration ID has been	updated as outlined in the specific So	enice Bulletin.	
		Before Update:	After Update:	Income on the second second	
Active Test		Canad Cal D-1	Current Call D-1	¥30V-10582-0	
		Contract Call D-3	Current Call D-2	-	
Monitor		Current Call ID-4	Ourner! Call ID-4	-	
on Data Lint		Some DTCs may have been set during t Clear all DTCs after restoring the vehicle	he reprogramming process. r.		
		-		PretPres	
			12. 1		

Repair Procedure (Continued)

12. Continue to follow the prompts in the Utility to load the configuration data.

Figure	12.
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6	Utility Select	Configuration (CNF-61-008)	3
Vew	Configuration Key-On Engine R Old Mantenance I Smart Key Functs Customize	After ECU Reprogramming, then press "Next" to write the configuration data.	P History
TIS Keyword		< Back Next > Exit	

Figure 13.

2016 P5	Utility Select	Configuration (CNF-01-008)	1
Trouble Codes	Configuration Key-On Engine R Oil Maintenance I Smart Key Functi Customize	Hep After ECU Reprogramming, then press "Next" to write the configuration data.	History
Data List Active Test		Configuration Please wait.	
Dual Data Liat			
TIS Keyword		< Back Next > Exit	

Repair Procedure (Continued)

13. Turn the engine/power switch OFF and ON (Engine OFF/Ready OFF), then press *Next* to proceed.

Fig	gur	e 1	4.
	gui	<u> </u>	

2016 P5	Utility Select	Configuration (CNF-01-011)	1
Input VIN Trouchin Codes Data List Active Test Monitor Lasty Tool Dieter carr	Seecc desired Unit	He Turn the engine/power switch OFF and ON (Engine OFF/Ready OFF), then press "Next" to proceed.	Plattary 1
TIS Keyword Print Close		< Back Next > Exit	

Repair Procedure (Continued)

14. Configuration is complete, select Exit.

NOTE

If the PCM or SSU ECU was replaced, you MUST complete the handshake to register them together. Please perform procedure B of <u>T-SB-0013-16</u>.

Figure 15.

Techstream (Ver 10.30	025) - 11611				0.0.2
System Select Stor	ed Data Engine Live				
2016 P5	Utility Select	onfiguration (CNF-01-012))	
Trouble Codes Trouble Codes Data List Active Test Monitor Utility Codel Discussion	Configuration Ray-On Engine R Of Maintenance I Siman Key Functs Customize	Configuration is complete.	Page	History	2
TIS Keyword Print			Exit		
Сози					

15. Please perform a Health Check and check for any updated calibrations. If there are updates, please check the bulletin to see if the car applies and load as necessary.