

Service Category	Engine/Hybrid System		
Section	Engine Control	Market USA	Scion Supports ASE Certification

### Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2016	iA		

### Introduction

This bulletin details the procedure for loading configuration data (also known as as-built data) in the ECUs of the Scion iA. When replacing one of the ECUs listed below, you must load configuration data 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:

 You can save the data 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.

 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 CODE	DESCRIPTION	TIME	OFP	T1	T2
N/A	Not Applicable to Warranty	Ι	-	I	_

### **Required Tools & Equipment**

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*		TS2UNIT	
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 11.00.017 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.

Techstreem (Ver 10.30.025)     File Function Setup 125 User Help	-	
Connect to Which	Vehicle Connection Witana 5303-000	
Open Scan Data File	Select the Information and press Next Required Information	
New Users Demo	Division: SCION .	
Check for Scareod Updates	Model IA - ModelYear 2016 -	
Generic 080 I	Engine P5	150
Registration User Selection	Option :	
Language Selection		
Advanced Diagnosis	Optional Information	
	VIN	
	Memo. *	
Log Dvt		
Ver 10.30.025	Hatory Help Cancel Naxt> Cancel	
Subscription Expiration 267d 00h 51m	TOYOTA 🖉 🖵	xus ⊕scion

### **Repair Procedure (Continued)**

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

Figure 3.					
f Techstream (Ver 10.30.0	25) - 11611				
File Function Setup 1	15 User Help				
System Select Stored	i Data				
2016 IA P5	System Selection Select desired system and	then press the arrow	v button to access the El	CU.	
		J status unknown. I communication OR	c		
Input VIN			ported or not responding		
				times but not responding now.	
Health Check	All ECUs Powertrain	Chassis   Body	Electrical		
Customize	Engine		Transmission	A85/05	
Setting	Electronic-Controlled Pow	er Steering	Main Body		ation Meter
ECU	Smart Key		Power Source Control	Restrain	t Control Module
Reprogramming	SCBS		Navigation Receiver		
CAN					
Bus Check					
TIS Function					1
no Puncoon					
					•
					^
TIS Search	1				*
Print					
Main Menu					

4. Select Utility.



Techstream (Ver 10.30)		- Caracity - King
File Function Setup		
System Select   Store	d Data Engine Live	
2016 IA P5		
Trouble Codes		
Data List		
Active Test Monitor		
Ubley Tool Data (1873)		
	bestlip	
	Lost in a sea of parameters? Try a customized data list.	
TS Search Print Close	Click have to four more.	

### **Repair Procedure (Continued)**

5. Select Configuration.

#### Figure 5.

Techstream (Ver 10.30)	025) - 11611 (1997)		
File Function Setup	TIS User Help		
System Select Store	d Data Engine Live		
f Techutream (Ver 10.80) File Function Setup System Select Store 2016 IA P5	Utility Selection Menu Select desired Utility and then press Next button.		
	Configuration	DTC Store History (Engine)	
	I Key-on crighte Running Self-Test	Oil Life Monitor	
Input VIN	Oil Maintenance Monitor	On-Demand Self-Test	
Head VIN	Smart Key Function	Special Operations and Control History	
Trouble Codes	Customize		
Data List			
Active Test			
Pictime rest			
Monitor			
Data List Active Test Monitor			
Utility			
Dual Data List			
	L		*
TIS Keyword	1		*
Print Close			
5600-01 Engine	,	Default Use	M DLC 3

6. Follow the prompts on the Utility screens.

### Figure 6.

	iA	Utility Select	Configuration (CNF-01-001)	1
Press "Next" to proceed.	ow puble Codes Data List Active Test Monitor	Select desired Ubin Configuration Key-On Engine R Oil Maintenance I Smart Key Funct	Hep 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	History
			Press "Next" to proceed.	

### **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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File Function Letter System Salect   St	tored Data Engine Live		
2016 IA P5	Utility Select	Configuration (CNF-01-002)	1
Ngut WW Trouble Codes	Configuration Key-On Engine R Oil Maintenance Smart Key Funct Customize	Help Select an operation.	History
Data List Active Test		C Before ECU Replacement	
Monitor Usity Dest Data (191			
TIS Keyword		< Back Next > Exit	
Piet Close	l		

### **Repair Procedure (Continued)**

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

#### Figure 8.

Techstream (Ver 10.30.0	025) - 11611	
File Function Setup		
System Select   Store	d Data Engine Live	
2016 IA PS Input VM Trouble Codes Data List Active Test Monitor	Utility Selection Manue           Select desired Utic         Configuration (CNF-01-007)           Configuration         Help           Configuration         Help           Configuration         Help           Smart Key Funct         Input VIN.           Smart Key Funct         Smart Key Funct           Outformize         Input VIN.           SMYDLBZV6GY100141         SMYDLBZV6GY100141	9 <u> </u>
Ublicy Dual Data List	Input	
TIS Keyword Print Close	< 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.

Se	tility Selection Monut Configuration (CNF-01-008) lect desired USI	aned Ubia					
	ey-On M Main		nh dawnlada	le illi	2		
	wat K View and track your download ustom	Location Ser	Actions				
tive Test	S-0002-15_Pcuw 1.0114		Open	Seve .			
Monitor	20150408162_zip 537 byte tis.teryeta.com	n Downloads		Open •			
Uliny					E		
(Data Lost					E		
	Options		Clear list	Clas			
Keyword			-	1			

### **Repair Procedure (Continued)**

10. Follow the instructions for CUW. Please see TSB <u>S-SB-0015-14</u> Techstream ECU Flash Reprogramming Procedure for more details.

### Figure 10.

6 IA	Utility Selection Manual Select desired
one ouble Codes	Contour Calibration Update Woord - Screen 5701-01
Data List Active Test Monitor Ustay Data Ustra	Version 8.20.1.116 Welcome to Calibration Update Wizard. This application is designed for professional automotive technicitans who service Toyota, Lewus, and Scion vehicles. NOTE: If you are using a serial mouse, either plug the diagnostic tester into a different COM port or disconnect the serie mouse and reboot your machine.
	English Cancel Copyright (C) 2000-2005 TOYOTAMOTOR CORPORATION All Rights Reserved.
TIS Keyword	Options Clear list Close

### **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.

А	Utility Sel	Configuration (CNF-01-008)				
		Calibration Update Woard - Screen	\$701-26		leafin a	
white Codes Data List	Configuration Key-On Eng Oil Maintens Smart Key S Customize	Reprogramming successful 1 Please turn IG off. Please confirm that calibration ID	has been updated as		nice Bulletin.	
		Before Update: Current Cal ID-1		After Update: Current Cal ID-1	P50V-18582-0	
Active Test		Current Cal ID-2		Current Cal ID-2	1301-10041-0	
10000		Ourrent Cali ID-3		Current Cal ID-3		
Monitor		Current Call ID-4		Current Cal ID-4		
				mening process		
er Deta Lief		Some DTCs may have been so Clear all DTCs after restoring t				E
el Deta List					_ Post _ Fee	

### **Repair Procedure (Continued)**

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

### Figure 12.

916 IA 5	Utility Select	Configuration (CNF-01-008)	1
Trouble Codes Data List Active Test Monitor Utility Data Data List	Contraction Key-On Engine R Of Maintenance 1 Smart Key Functio Customize	After ECU Reprogramming, then press "Next" to write the configuration data.	1 History
TIS Keyword Print Close		< Back Next > Exit	

#### Figure 13.

2016 IA P5	Utility Select		٦ ٢
Trouble Codes	Select desired US Configuration Key-On Engine R Or Maintenance I Smart Key Functs Customize	Hep After ECU Reprogramming, then press "Next" to write the configuration data.	History
Data List Active Test Monitor Listing Chairing		Configuration Please wait.	
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.

#### Figure 14.

1916 IA 15	Utility Select Select desired Util	Configuration (CMF-01-011) Help	1
nut VV Trouble Codes Data List Active Test Montor Unity Codel Times List	Configuration Key-On Engine R Of Manestance I Sistant Key Funct Customize	Turn the engine/power switch OFF and ON (Engine OFF/Ready OFF), then press "Next" to proceed.	History
TIS Keyword Print		< 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>S-SB-0022-15</u>.

Figure 15.

Techstream (Ver 10.30.0	25) - 11611				
File Function Setup T	15 User Help				
System Select   Stored	Data Engine Live				
2016 IA P5	Utility Select Select desired Utili	Configuration (CNF-01-012)	Help	)	
Input VIN Trouble Codes	Configuration Key-On Engine R Oil Maintenance Smart Key Funct Customize	Configuration is complete.		History	
Data List Active Test Monitor					
Dual Data List					
TIS Keyword			Exit		
Print Close	ļ			Detroition Inc.	

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.