

Main Body ECU Replacement-Repair Manual Supplement

Service Category Vehicle Exterior

Section Lighting (ext)

Market USA

Scion Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2013	FR-S	

Introduction

This procedure has been developed to supplement the Repair Manual to assure correct registration of the Immobilizer Key Codes when replacing the Main Body ECU (Network Gateway).

Warranty Information

OP CODE	DESCRIPTION	TIME	OFB	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
TIS Techstream		TSPKG1	
Techstream Lite		TSLITEDLR01	

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 8.00.034 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
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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Service Bulletin Overview

If the Main Body ECU requires replacement, use the following procedure to complete the Immobilizer Key Code registration. Depending on the vehicle condition and number of original keys provided, there are different Immobilizer Key Code registration procedures. Follow the repair procedure carefully to assure correct registration of the Immobilizer Key Codes.

Repair Procedure

1. Connect the GR8 Battery Diagnostic Station in Power Supply mode.
2. Determine how many keys have been provided.
3. If more than one key has been provided, label the keys 1, 2, and 3.
4. Use the following chart to determine which repair procedure to follow:

KEYS PROVIDED	ABLE TO COMMUNICATE WITH THE MAIN BODY ECU	UNABLE TO COMMUNICATE WITH THE MAIN BODY ECU
All	Repair Procedure A	
Some	Repair Procedure B	Repair Procedure C
None	Repair Procedure C	

Repair Procedure A – ALL Keys Provided

1. Install the new Main Body ECU, ensuring the connectors are fully seated.
2. Turn "IG ON" with key #1.
3. Perform the Key Registration utility in Techstream.
4. ECU initialization ("Hand shake"):
 - A. Put a jumper wire in DLC3 connected between TC and CG.
 - B. Turn ignition ON and verify combination meter lights are blinking.
 - C. Run this initialization 30 – 45 minutes to complete repair procedure.

NOTE

Add any additional keys as needed using the normal Key Registration utility authorized by a registered master key.

5. Verify the vehicle operates normally and initialize any systems that may require initialization.

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Repair Procedure B – SOME Keys Provided

1. With the original Main Body ECU installed in the vehicle, choose a primary key and turn the “IG ON”, set other keys aside for now.
2. Perform the Key Code Erasure utility.
3. Install the new Main Body ECU.
4. With the primary key, turn the “IG ON” and perform the Key Registration utility in Techstream.
5. Register the other keys.
6. ECU initialization (“Hand shake”).
 - A. Put a jumper wire in DLC3 connected between TC and CG.
 - B. Turn ignition ON and verify combination meter lights are blinking.
 - C. Run this initialization 30 – 45 minutes to complete repair procedure.

NOTE

Add any additional keys as needed using the normal Key Registration utility authorized by a registered master key.

7. Verify the vehicle operates normally and initialize any systems that may require initialization.

Repair Procedure C – NO Key Provided

1. Replace the Main Body ECU and the combination meter.
2. With the NEW key, turn the “IG ON” and perform the Key Registration utility in Techstream.
3. Register other keys if needed.
4. ECU initialization (“Hand shake”):
 - A. Put a jumper wire in DLC3 connected between TC and CG.
 - B. Turn ignition ON and verify combination meter lights are blinking.
 - C. Run this initialization 30 – 45 minutes to complete repair procedure.

NOTE

Add any additional keys as needed using the normal Key Registration utility authorized by a registered master key.

5. Verify the vehicle operates normally and initialize any systems that may require initialization.