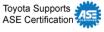


ECU Security Key Writing

Service

Category Power Source/Network

Section Networking Market USA



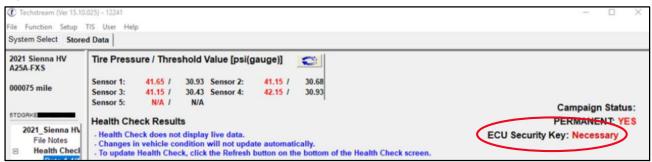
Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2021	RAV4 Prime, Sienna HV, Venza HV	

Introduction

When certain vehicle ECUs are replaced, the ECU security key must be written in order for that ECU to communicate on the vehicle network. The Techstream Software Health Check Results screen has been enhanced to help identify if a replacement ECU requires an ECU security key. Follow the procedures in this bulletin to write the ECU security key to the replacement ECU.

Figure 1.



Warranty Information

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

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ECU Security Key Writing

Required Tools & Equipment

TOYOTA

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*		TSADVUNIT	1
Techstream 2.0	ADE	TS2UNIT	
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	1

^{*}Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 15.20.016 or later is required.
- Additional SSTs may be ordered by calling 1-800-933-8335.

Procedures

•	Confirm ECU Security Key Requirement	. 3
	Health Check	. 3
	ECU Security Key Button	. 4
•	ECU Security Key Writing Process	. 5

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ECU Security Key Writing

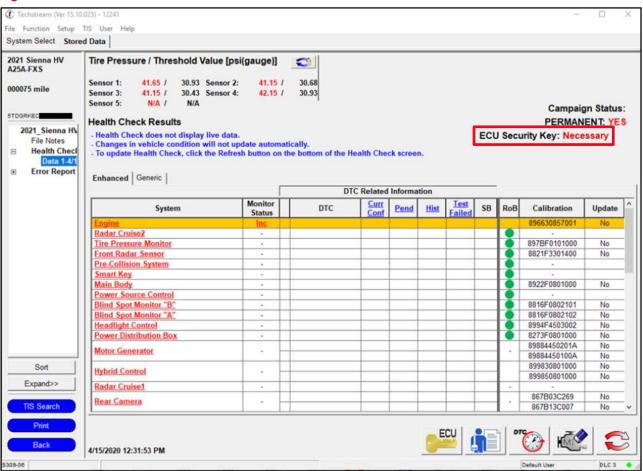
Confirm ECU Security Key Writing Requirement

After ECU replacement, it is important to confirm if ECU security key writing is necessary. There are two methods available to confirm if the ECU security key writing function is required within the Techstream software: performing a Health Check and using the ECU Security Key button.

Health Check

Performing a Health Check will confirm if ECU security key writing is needed. The Techstream Health Check Results screen has been enhanced to include an ECU security key indicator. The ECU security key indicator will display "Necessary" when an ECU security key needs to be written and "-" when ECU security key writing is NOT required.

Figure 2.



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ECU Security Key Writing

Confirm ECU Security Key Writing Requirement (continued)

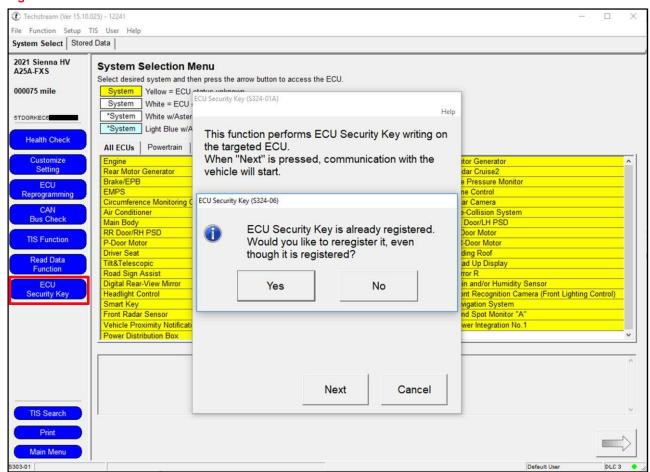
ECU Security Key Button

Selecting the ECU Security Key Button is another method to confirm if ECU security key writing is required. From the System Select screen the ECU Security Key button is located on the left-hand side of the function menu.

NOTE

Selecting this option can allow ECU security key writing even if it is not required. If the ECU security key does NOT need to be written, a message will appear stating "ECU Security Key is already registered."

Figure 3.



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ECU Security Key Writing

ECU Security Key Writing Process

NOTE

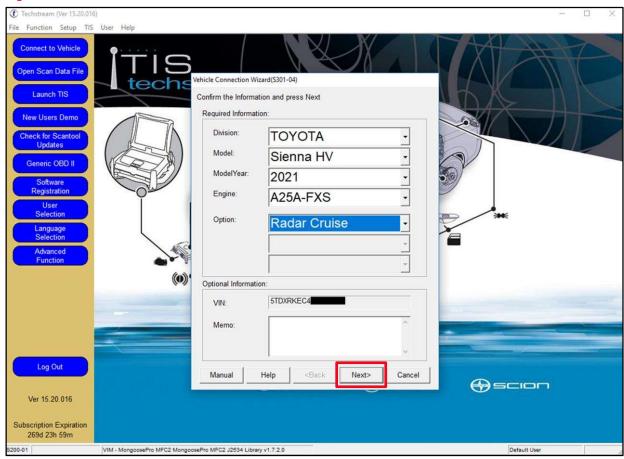
The process outlined in this section will use the Health Check Result screen to confirm if ECU security key writing is required.

Connect Techstream to the vehicle and press Next.

NOTE

In some instances, automatic vehicle detection may not be available due to specific ECU replacement. If the vehicle information does NOT automatically populate, manually select the appropriate vehicle information.

Figure 4.



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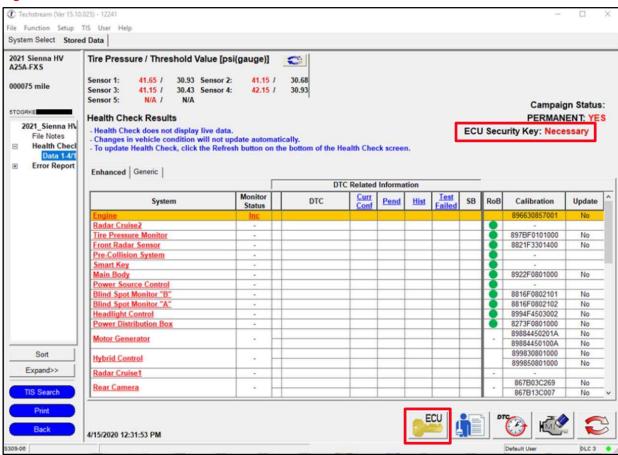
ECU Security Key Writing

ECU Security Key Writing Process (continued)

2. Perform a Health Check.

If the ECU Security Key indicator in the upper-right corner of the Health Check screen displays "Necessary", press the ECU key button, located on the bottom of the screen.

Figure 5.



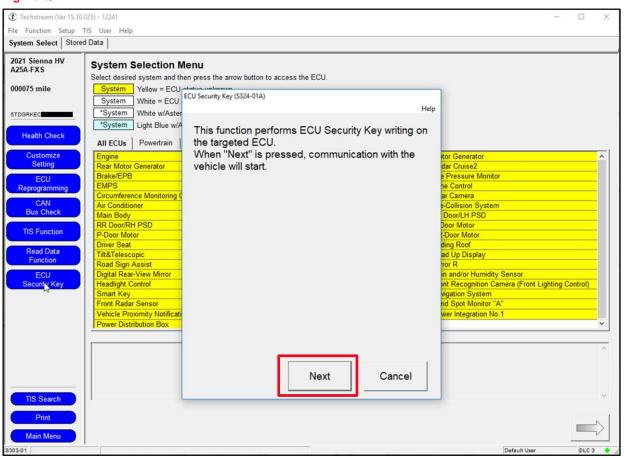
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ECU Security Key Writing

ECU Security Key Writing Process (continued)

Select Next.

Figure 6.



4. Techstream will read the vehicle information and open TIS to download the ECU security key. Input your TIS login credentials and select Login.

Figure 7.



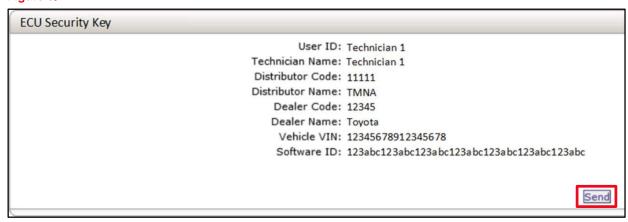


ECU Security Key Writing

ECU Security Key Writing Process (continued)

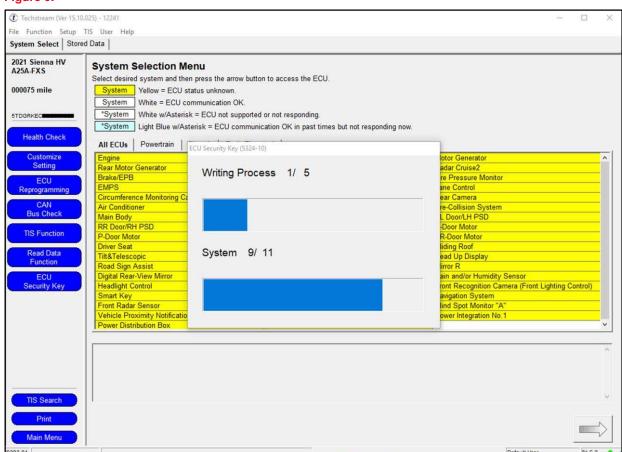
Select Send.

Figure 8.



6. After pressing Send, TIS will automatically send the ECU security key to Techstream. Return to Techstream and wait for the writing process to complete.

Figure 9.



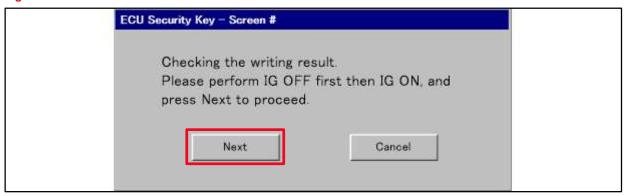
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ECU Security Key Writing

ECU Security Key Writing Process (continued)

7. Cycle the ignition to IG-OFF, then IG-ON. Select Next.

Figure 10.



8. Select Ok.

Figure 11.



9. Confirm the ECU security key has been properly written by performing a Health Check and confirming the ECU security key indicator shows "-". Then, clear ALL DTCs.

Figure 12.



NOTE

The ECU security key indicator will show "Necessary" if the security key was NOT written properly. If NOT written properly return to step 2.