

Techstream Smart Key Programming

Service Category Vehicle Interior

Section Theft Deterrent/Keyless Entry

Market USA

Toyota Supports
 ASE Certification 

Applicability

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

REVISION NOTICE

September 13, 2016 Rev1:

- **Applicability has been updated to include 2017 model year Yaris SD MEX-Prod and iA vehicles. Any previous printed versions of this bulletin should be discarded.**

Introduction

The Yaris SD and iA are equipped with Smart Start and Remote Keyless Entry. This bulletin details the Techstream key programming process. Follow the key programming procedures outlined in this bulletin for the following:

- Smart ECU Replacement
- Engine ECU (PCM) Replacement
- Key erase procedure
- Adding a key
- ALL keys are lost, how to turn the IG-ON

Warranty Information

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

Techstream Smart Key Programming

Required Tools & Equipment

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

* Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 11.20.019 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Repair Procedure

NOTICE

- The engine CANNOT be started if ANY step or procedure for each service operation is skipped. Perform ALL procedures in order.
- If ANY metallic or magnetic object is near the key, communication between the key and vehicle may be obstructed, resulting in a failure to program the immobilizer system.
- Remove ALL devices that can send/receive radio waves from the vehicle; including cell phones and laptops (Techstream included).
- Do NOT start the engine unless instructed to do so during the process. If the engine is started during immobilizer system programming, the programming mode is canceled.
- Keep ALL keys away from the vehicle during programming unless otherwise instructed.

NOTE

- 2 (two) or more keys MUST be programed for the engine to start.
- A maximum of 6 (six) keys can be programmed to 1 vehicle.
- The number of programed keys can be verified by Techstream.
- Techstream MUST be connected to the network for each process outlined in this bulletin.

Techstream Smart Key Programming

Repair Procedure (Continued)

TECHSTREAM UTILITY	WHEN TO USE	PROCEDURE
Forced IG-ON	<ul style="list-style-type: none"> • ALL keys are lost, and IG has to be ON to enter Smart Key Utility 	<p>A (See Page 4)</p>
Smart Parameter Reset	<ul style="list-style-type: none"> • Needed if you replace the Smart ECU • Needed if you replace the PCM 	<p>B (See Page 8)</p>
Smart Key Erase and Registration	<p>If 1 or ALL keys are lost, or they are stolen, use this utility to erase ALL the codes and register NEW keys.</p> <p>Once you do this, ANY key NOT present will no longer work and will have to be programmed.</p>	<p>C (See Page 16)</p>
Register Additional Smart Key	<ul style="list-style-type: none"> • Needed if you want to add 1 key • Need to have at least 1 key to do this utility 	<p>D (See Page 26)</p>

NOTE

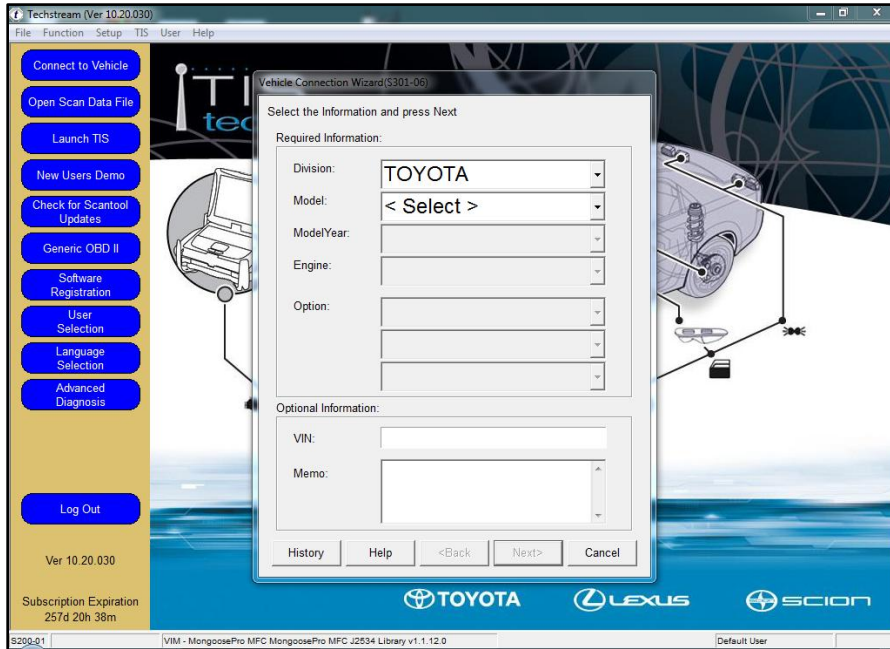
- Please refer to [T-SB-0043-14](#) "Immobilizer and Smart Key Reset" for the security authorization process.
- Procedures B, C, and D require a Seed Number and Passcode.

Techstream Smart Key Programming

Procedure A – Forced IG-ON

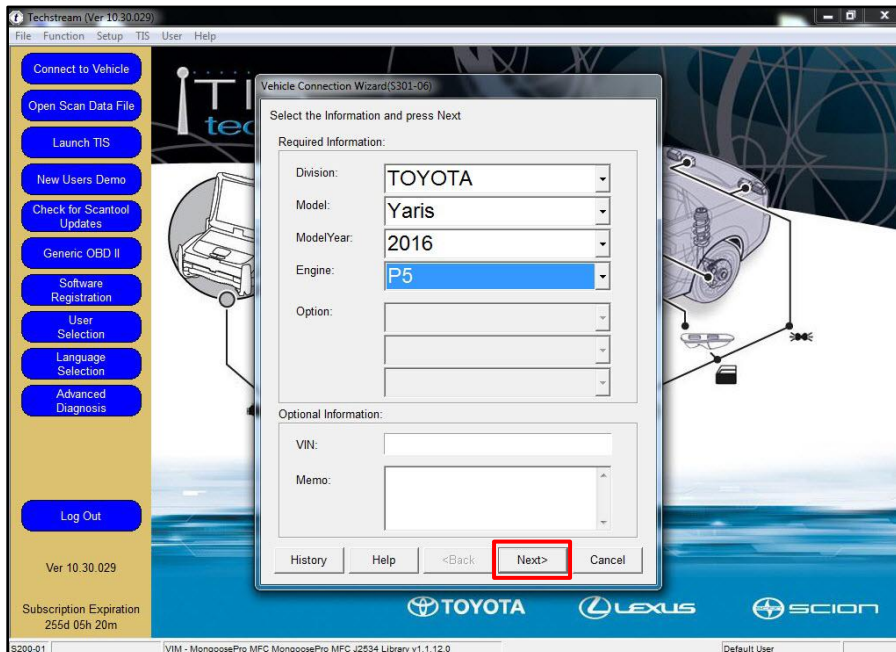
1. Connect Techstream to the vehicle.

Figure 1.



2. Choose Toyota, Yaris or iA, appropriate Model Year, P5 and press Next.

Figure 2.

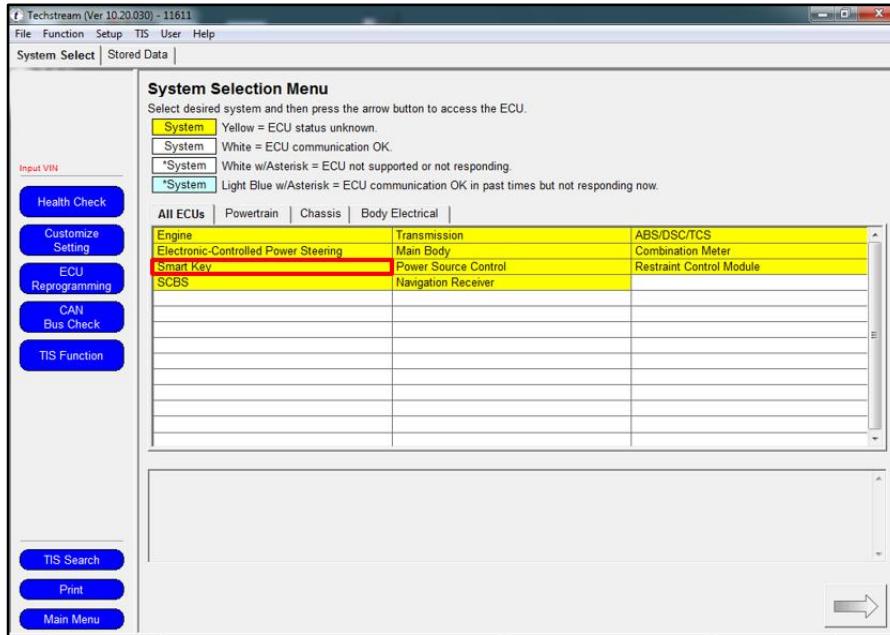


Techstream Smart Key Programming

Procedure A – Forced IG-ON (Continued)

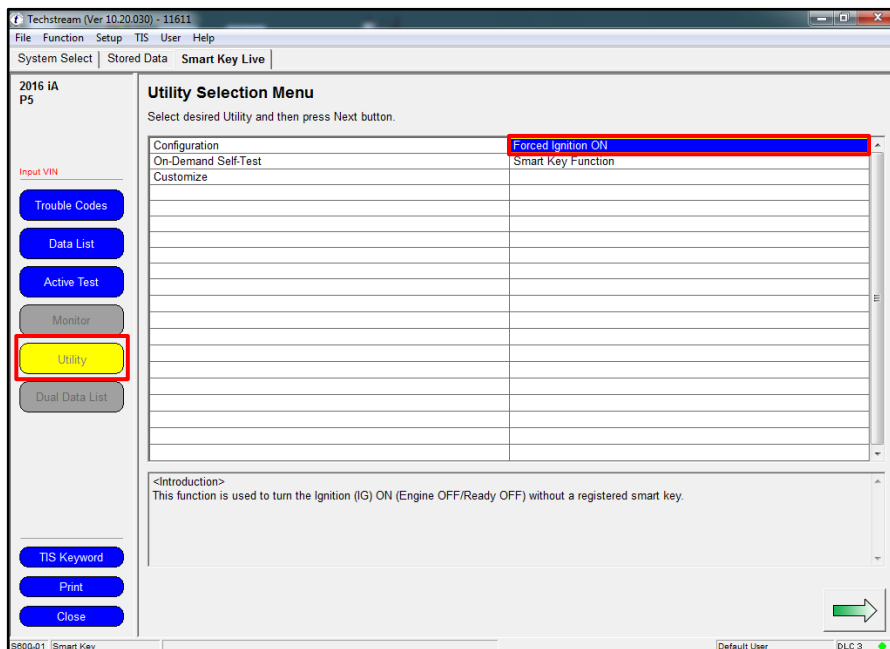
3. Select *Smart Key* from the System Selection Menu.

Figure 3.



4. From the Utility Selection Menu, select *Utility* from the Left Menu and then select *Forced Ignition ON*.

Figure 4.

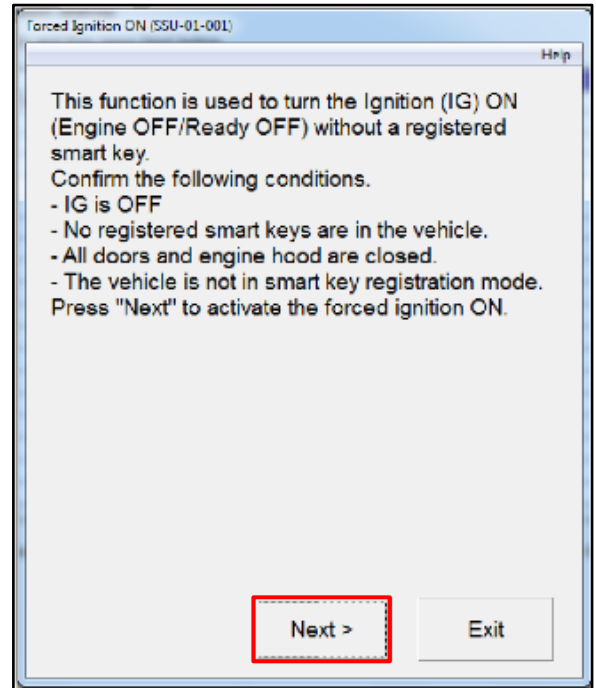


Techstream Smart Key Programming

Procedure A – Forced IG-ON (Continued)

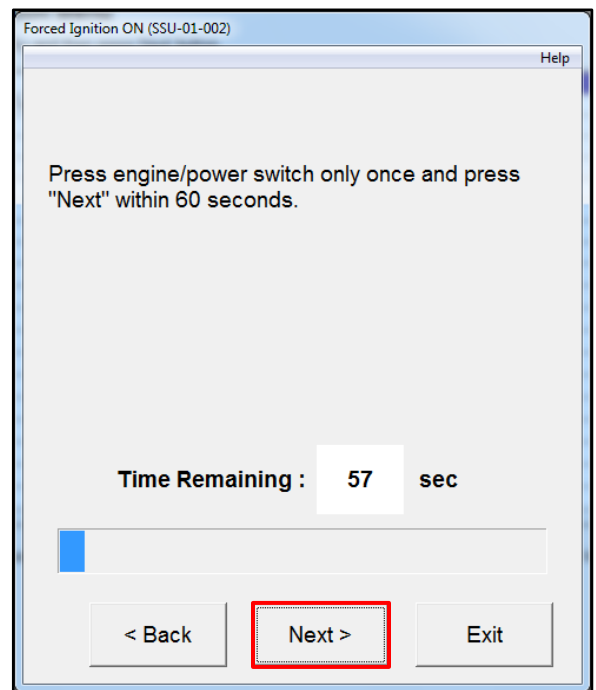
- The Forced Ignition ON Utility will begin.
Follow the prompts on the screens.

Figure 5.



- Press the engine/power switch once and press *Next* within 60 seconds.

Figure 6.

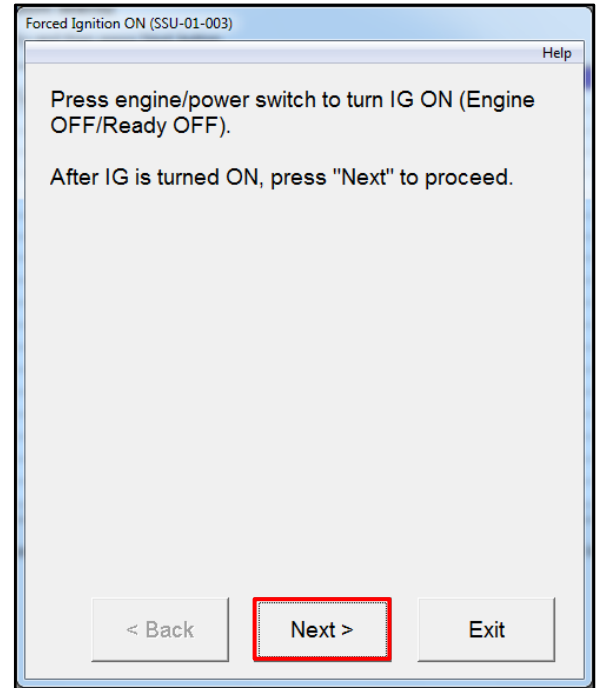


Techstream Smart Key Programming

Procedure A – Forced IG-ON (Continued)

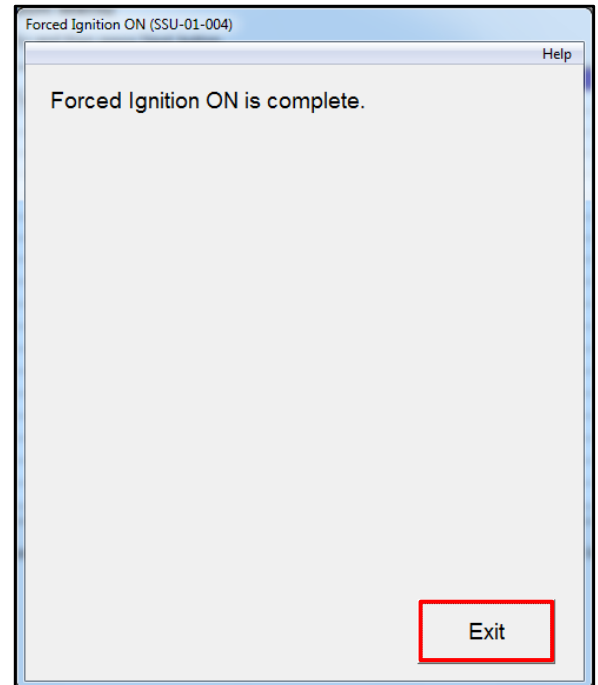
7. Press the engine/power switch to turn the IG ON (Engine OFF/Ready OFF). Once the ignition is turned ON, press *Next* to proceed.

Figure 7.



8. Forced Ignition ON is complete. Once pressing *Exit*, you will be returned to the Utility Selection Menu. Proceed to Procedure C.

Figure 8.

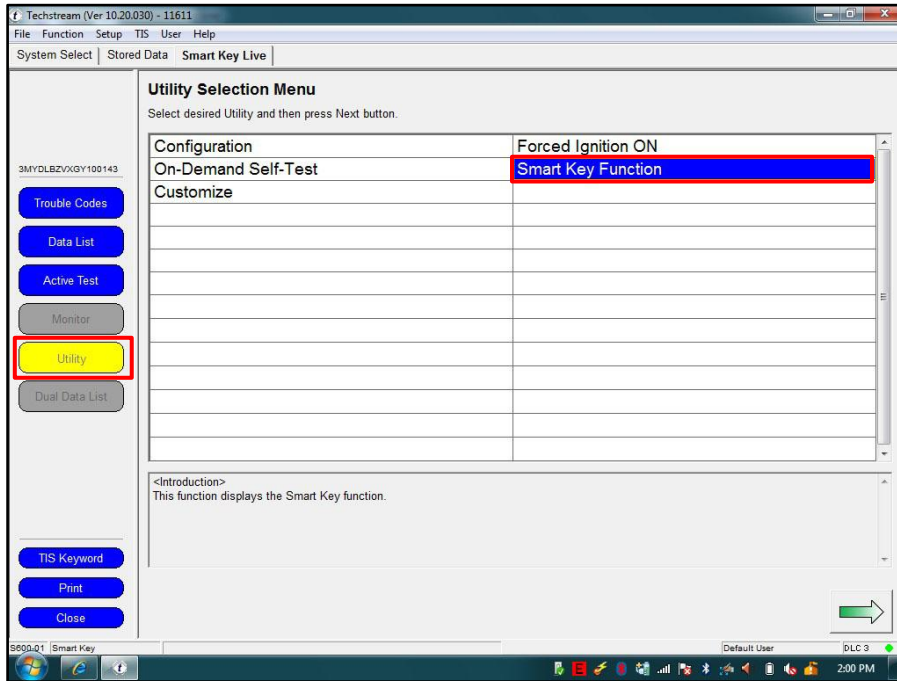


Techstream Smart Key Programming

Procedure B – Smart Parameter Reset

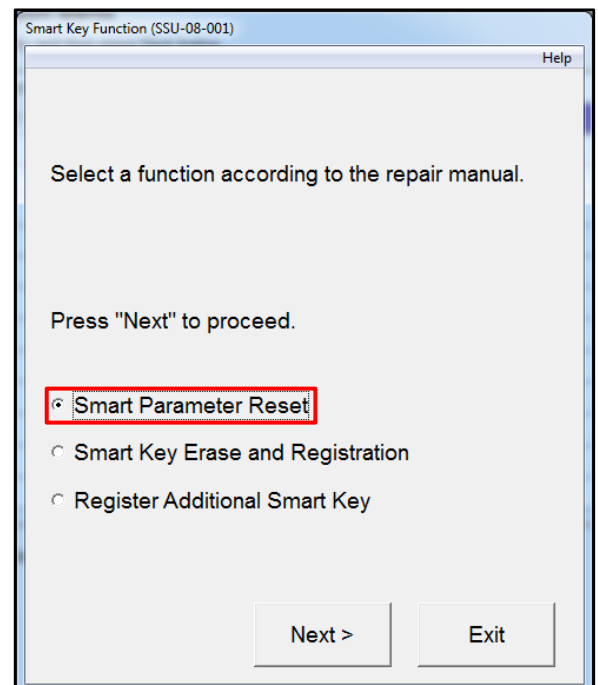
1. Select *Smart Key Function*.

Figure 9.



2. Select *Smart Parameter Reset*.

Figure 10.

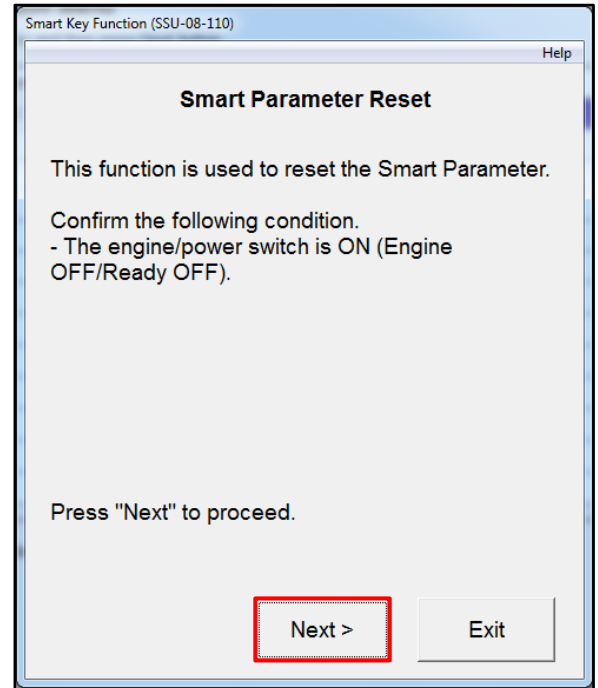


Techstream Smart Key Programming

Procedure B – Smart Parameter Reset (Continued)

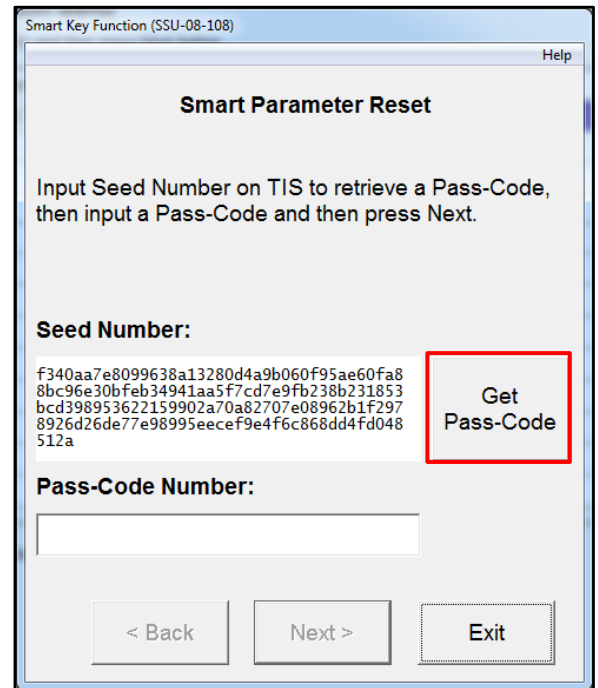
3. Confirm the engine/power switch is ON (Engine OFF/Ready OFF).

Figure 11.



4. Techstream will generate a Seed Number. Click *Get Pass-Code*.

Figure 12.



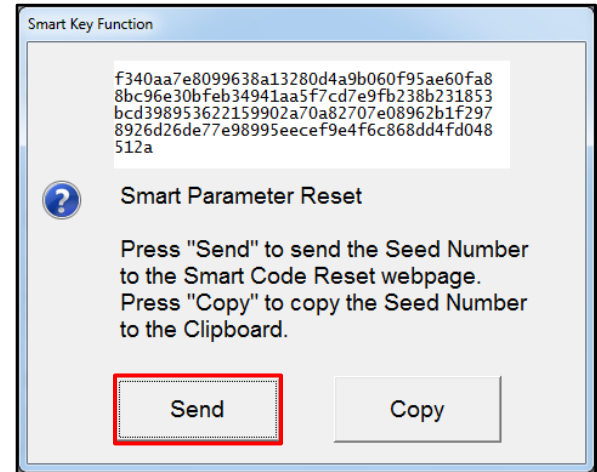
Techstream Smart Key Programming

Procedure B – Smart Parameter Reset (Continued)

- Click *Send* to connect to TIS.

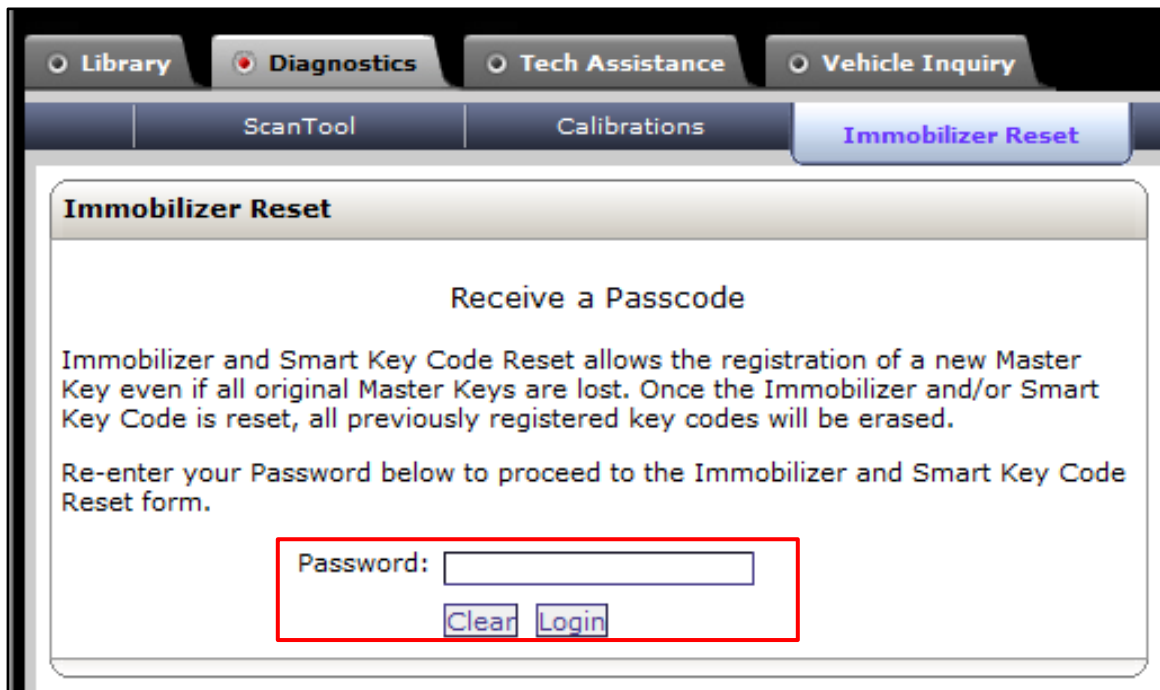
NOTE
 Refer to [T-SB-0043-14](#) “*Immobilizer and Smart Key Reset*” for the security authorization process.

Figure 13.



- Log into TIS.
- Enter your password.

Figure 14.



Techstream Smart Key Programming

Procedure B – Smart Parameter Reset (Continued)

8. Ensure the information is correctly populated and/or copied into the VIN, Repair Order/Parts Invoice Number, Customer Last Name, Techstream Software Version, and Seed Number sections and click *Next*.

Figure 15.

Key Code Reset

Please complete the following fields to receive a passcode.

Request No:
 Dealer Code:
 Dealer Name:
 Technician Name:

Vehicle VIN:
 Repair Order/Parts Invoice Number:
 Customer Last Name:
 *Techstream Software Version
 *Seed Number (from scantool):

Positive Identification Policy

I have verified the customer's authority to obtain vehicle security information for this vehicle.
 I have verified the customer's full legal name and confirmed their identity with a valid picture ID.
 I have or will visually confirm the vehicle's registration document and ownership.
 I agree to the Terms and Conditions.

Note: Details of this transaction will be included in the Monthly Vehicle Security Transaction Report sent to the Dealer GM. Also, a log of each transaction is sent to the National Insurance Crime Bureau.

(*) - Indicates Required Field(s)

Request Status for Request No: 14063000028

Request Status: Approved
Request Time:
Manager:
Approval Valid Till:

Techstream Smart Key Programming

Procedure B – Smart Parameter Reset (Continued)

- The Passcode will be provided as shown. Copy the Passcode.

Figure 16.

The screenshot shows the 'Immobilizer Reset' screen in the Techstream software. The interface includes a navigation bar with 'Library', 'Diagnostics', 'Tech Assistance', and 'Vehicle Inquiry'. Below this is a sub-menu with 'ScanTool', 'Calibrations', and 'Immobilizer Reset'. The main content area is titled 'Key Code Reset' and contains the following sections:

- Request Details:** A list of fields including Request No., Dealer Code, Dealer Name, Technician Name, Vehicle VIN, Repair Order/Parts Invoice Number, Customer Last Name, and Techstream Software Version.
- Positive Identification Policy:** A list of four checkboxes, all of which are checked. The items are:
 - I have verified the customer's authority to obtain vehicle security information for this vehicle.
 - I have verified the customer's full legal name and confirmed their identity with a valid picture ID.
 - I have or will visually confirm the vehicle's registration document and ownership.
 - I agree to the TIS Terms and Conditions.
- Request Approval Policy:** A list of three checkboxes, all of which are checked. The items are:
 - I have verified the details entered for this request and confirmed the authority of the customer was verified.
 - I realize that upon retrieval, a transaction log will be posted to the National Insurance Crime Bureau.
 - I agree to the TIS Terms and Conditions.

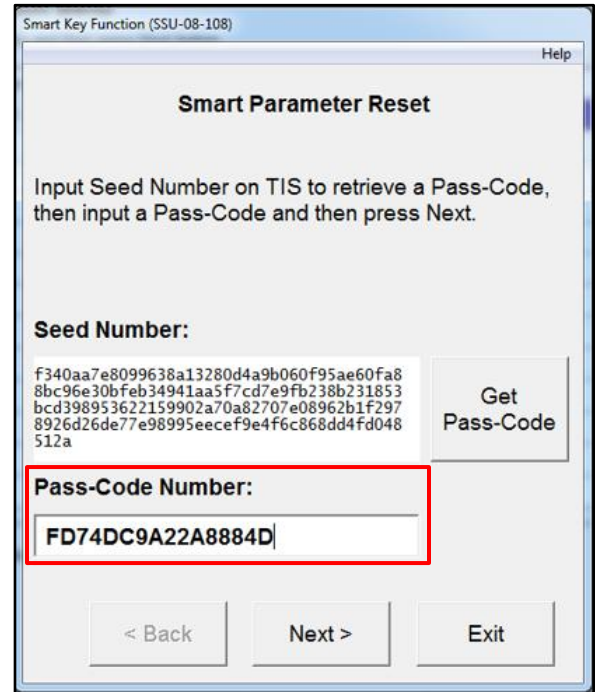
At the bottom of the screen, it says 'Thank You [redacted]! Your Immobilizer Passcode: **FD74DC9A22A8884D**'. A red arrow points to the passcode, which is circled in red. Below the passcode is the instruction 'Click the button below to return to the Immobilizer Reset Home Page.' and a button labeled 'Immobilizer Reset Home'.

Techstream Smart Key Programming

Procedure B – Smart Parameter Reset (Continued)

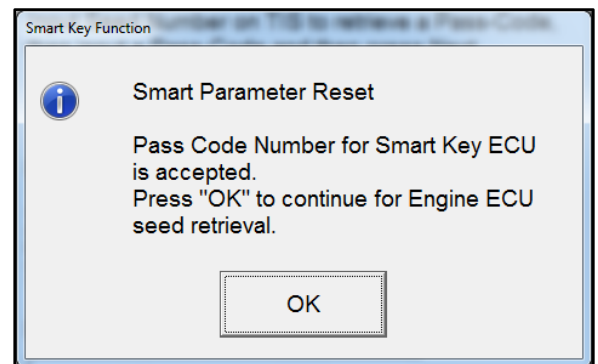
- Paste the Pass-Code Number back into Techstream as shown below.

Figure 17.



- The Smart Parameter Reset for the Smart Key ECU is now complete.
After clicking *OK*, you will be returned to the “*Get Pass-Code*” screen to retrieve a Pass-Code for the Engine ECU.

Figure 18.



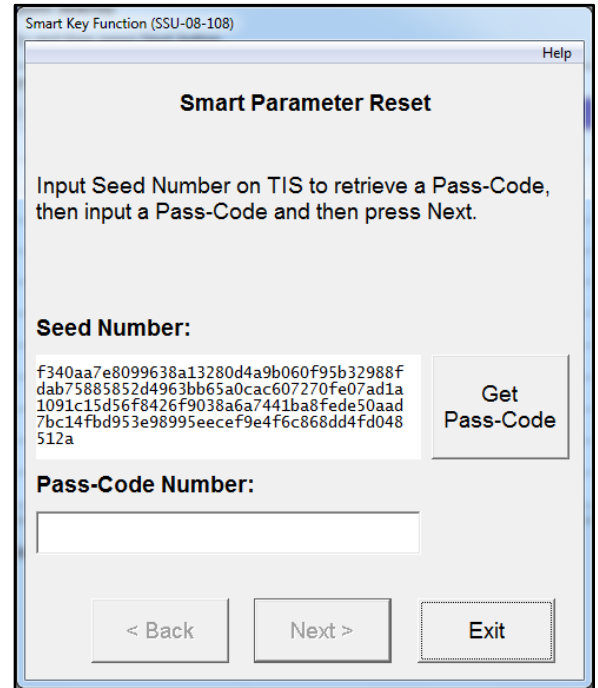
Techstream Smart Key Programming

Procedure B – Smart Parameter Reset (Continued)

12. Complete the Smart Parameter Reset for the Engine ECU.
Repeat steps 4 – 10 to retrieve a 2nd Pass-Code for the Engine ECU.

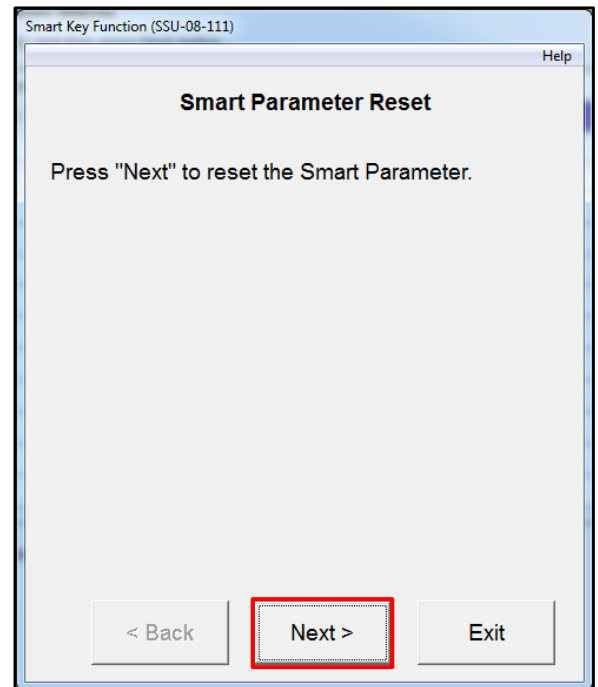
NOTE
You **MUST** retrieve a 2nd Pass-Code.

Figure 19.



13. Click *Next* to reset the Smart Parameter.

Figure 20.



Techstream Smart Key Programming

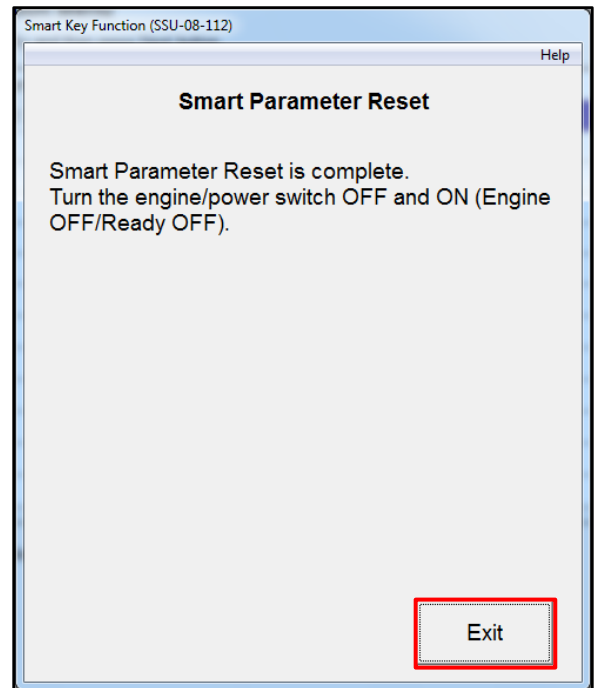
Procedure B – Smart Parameter Reset (Continued)

14. The Smart Parameter Reset is now complete.
Turn the engine/power switch OFF and ON (Engine OFF/Ready OFF) and click *Exit*.

NOTE

If you have replaced both the Engine ECU (PCM) AND the Smart ECU, you MUST proceed to Procedure C.

Figure 21.

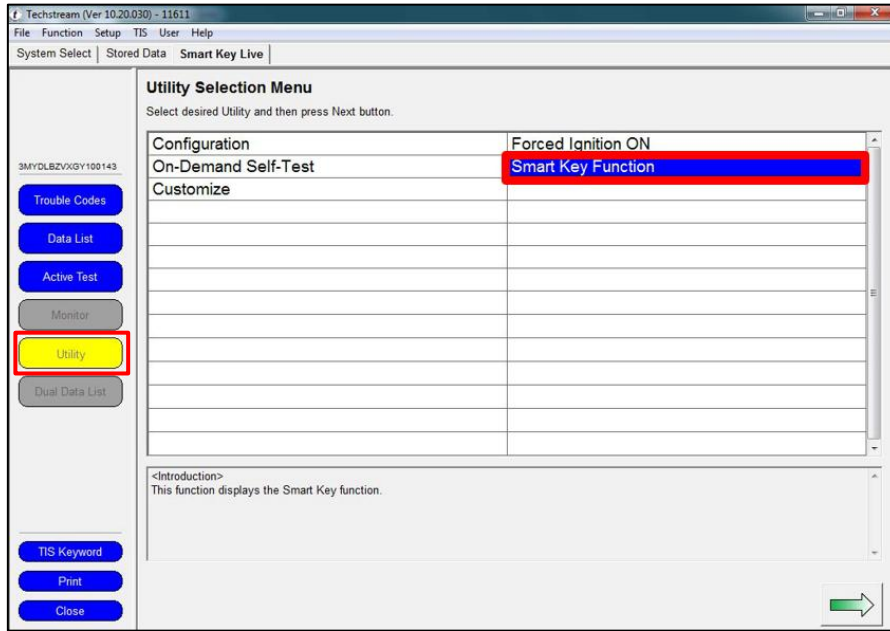


Techstream Smart Key Programming

Procedure C – Smart Key Erase and Registration

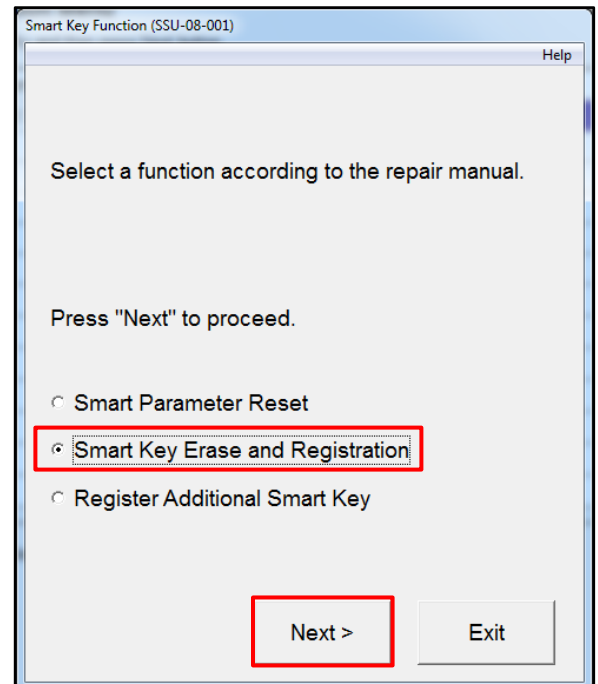
1. Select *Smart Key Function*.

Figure 22.



2. Select *Smart Key Erase and Registration* and press *Next*.

Figure 23.



Techstream Smart Key Programming

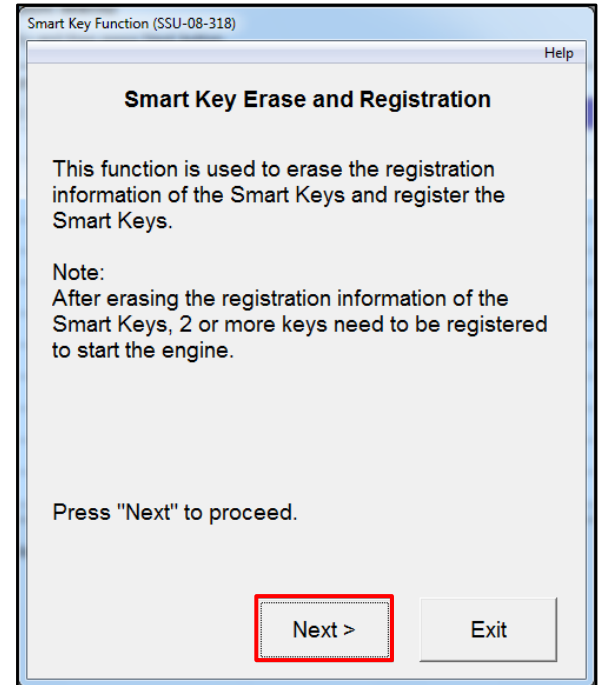
Procedure C – Smart Key Erase and Registration (Continued)

- You have now entered the Smart Key Erase and Registration Utility.

NOTE
 After erasing the registration information of the Smart Keys, 2 or more keys need to be registered to start the engine.

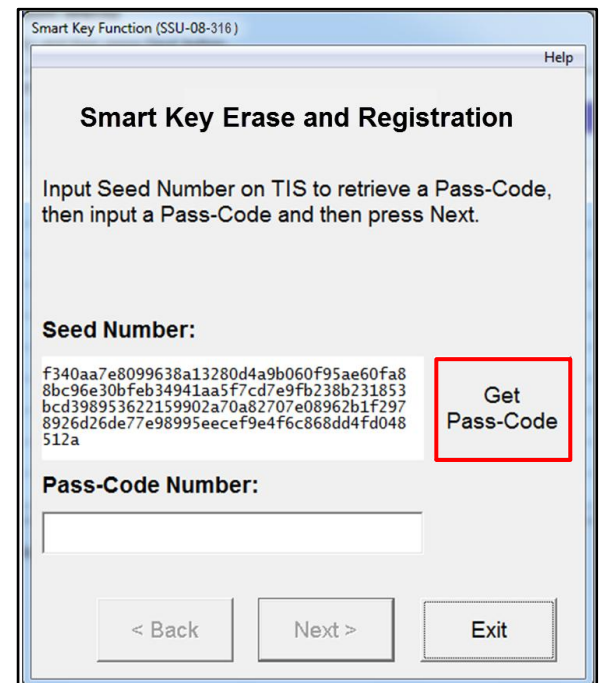
Press *Next*.

Figure 24.



- Techstream will generate a Seed Number. Click *Get Pass-Code*.

Figure 25.



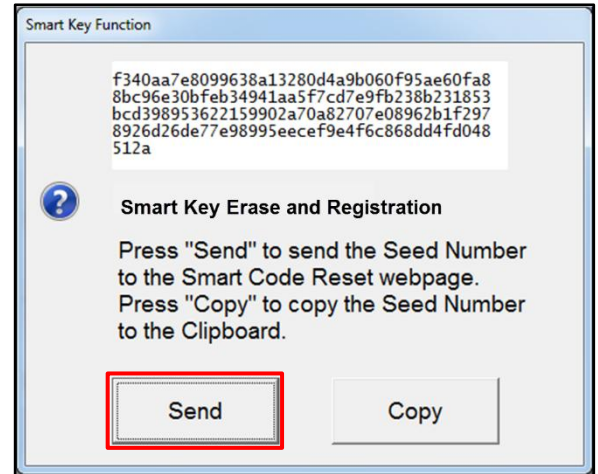
Techstream Smart Key Programming

Procedure C – Smart Key Erase and Registration (Continued)

- Click *Send* to connect to TIS.

NOTE
Please refer to [T-SB-0043-14](#) "Immobilizer and Smart Key Reset" for the security authorization process.

Figure 26.



- Log into TIS.
- Enter your password.

Figure 27.



Techstream Smart Key Programming

Procedure C – Smart Key Erase and Registration (Continued)

8. Ensure the information is correctly populated and/or copied into the VIN, Repair Order/Parts Invoice Number, Customer Last Name, Techstream Software Version, and Seed Number sections and click *Next*.

Figure 28.

Library Diagnostics Tech Assistance Vehicle Inquiry

ScanTool Calibrations **Immobilizer Reset** Key Code Telematics Navigation

Key Code Reset

Please complete the following fields to receive a passcode.

Request No:
 Dealer Code:
 Dealer Name:
 Technician Name:

Vehicle VIN:
 Repair Order/Parts Invoice Number:
 Customer Last Name:
 *Techstream Software Version
 *Seed Number (from scantool):

Positive Identification Policy

I have verified the customer's authority to obtain vehicle security information for this vehicle.
 I have verified the customer's full legal name and confirmed their identity with a valid picture ID.
 I have or will visually confirm the vehicle's registration document and ownership.
 I agree to the Terms and Conditions.

Note: Details of this transaction will be included in the Monthly Vehicle Security Transaction Report sent to the Dealer GM. Also, a log of each transaction is sent to the National Insurance Crime Bureau.

(* - Indicates Required Field(s))

Request Status for Request No: 1406300028

Request Status: Approved
Manager:

Request Time:
Approval Valid Till:

Back Clear **Next**

Techstream Smart Key Programming

Procedure C – Smart Key Erase and Registration (Continued)

- The Passcode will be provided as shown. Copy the Passcode.

Figure 29.

The screenshot shows the Techstream software interface for 'Immobilizer Reset'. The top navigation bar includes 'Library', 'Diagnostics', 'Tech Assistance', and 'Vehicle Inquiry'. Below this are 'ScanTool', 'Calibrations', and 'Immobilizer Reset'. The main content area is titled 'Key Code Reset' and contains the following sections:

- Request Details:** Fields for Request No., Dealer Code, Dealer Name, Technician Name, Vehicle VIN, Repair Order/Parts Invoice Number, Customer Last Name, and Techstream Software Version.
- Positive Identification Policy:** Four checkboxes, all of which are checked:
 - I have verified the customer's authority to obtain vehicle security information for this vehicle.
 - I have verified the customer's full legal name and confirmed their identity with a valid picture ID.
 - I have or will visually confirm the vehicle's registration document and ownership.
 - I agree to the TIS Terms and Conditions.
- Request Approval Policy:** Three checkboxes, all of which are checked:
 - I have verified the details entered for this request and confirmed the authority of the customer was verified.
 - I realize that upon retrieval, a transaction log will be posted to the National Insurance Crime Bureau.
 - I agree to the TIS Terms and Conditions.

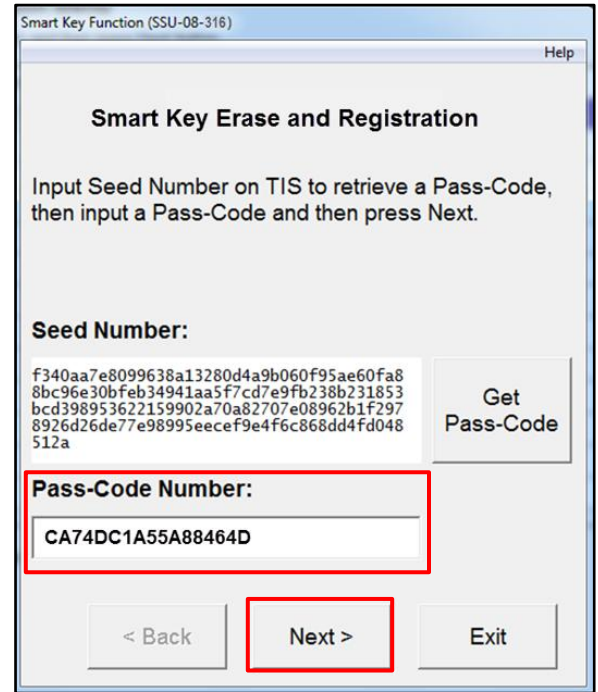
At the bottom, it says 'Thank You [redacted]! Your Immobilizer Passcode **CA74DC1A55A88464D**'. A red arrow points to this passcode. Below the passcode is a button labeled 'Immobilizer Reset Home'.

Techstream Smart Key Programming

Procedure C – Smart Key Erase and Registration (Continued)

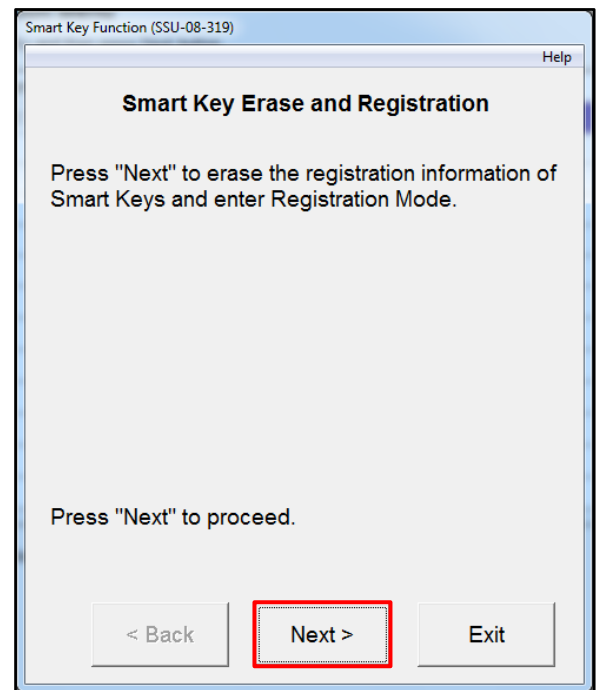
10. Paste the Pass-Code Number back into Techstream as shown below.
Press *Next*.

Figure 30.



11. Press *Next* to erase the registration information of the keys and enter registration mode.

Figure 31.



Techstream Smart Key Programming

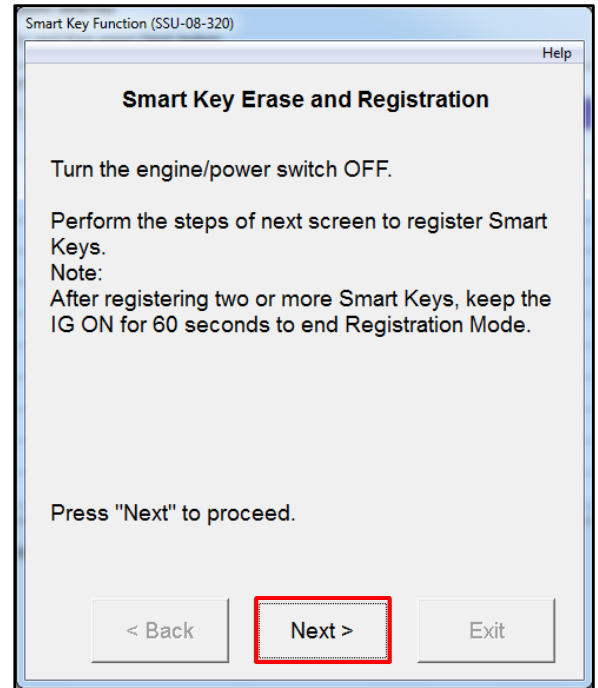
Procedure C – Smart Key Erase and Registration (Continued)

12. Turn the engine/power switch OFF.

NOTE

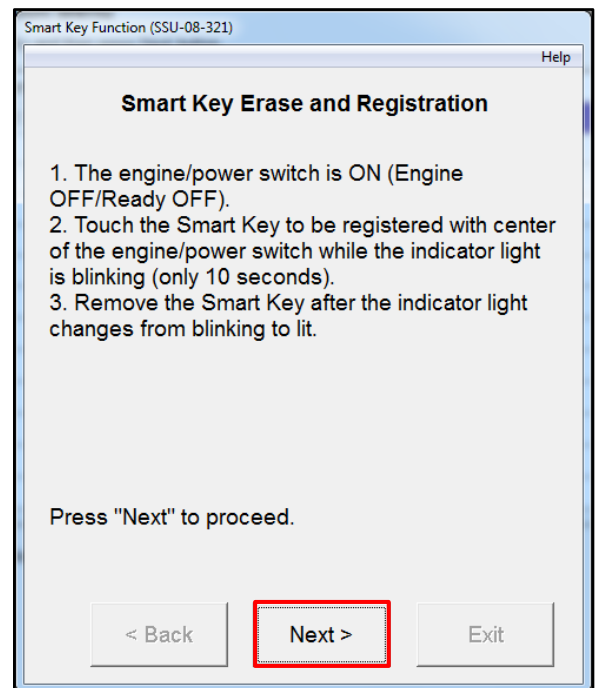
- After registering 2 or more Smart Keys, keep the IG ON for 60 seconds to end registration mode.
- On the next screen you will be asked to turn the IG ON. The power switch indicator light will be blinking. You **MUST** touch the Smart Key to be registered to the power switch within 10 seconds.

Figure 32.



13. Follow the 3 steps on the screen.

Figure 33.



Techstream Smart Key Programming

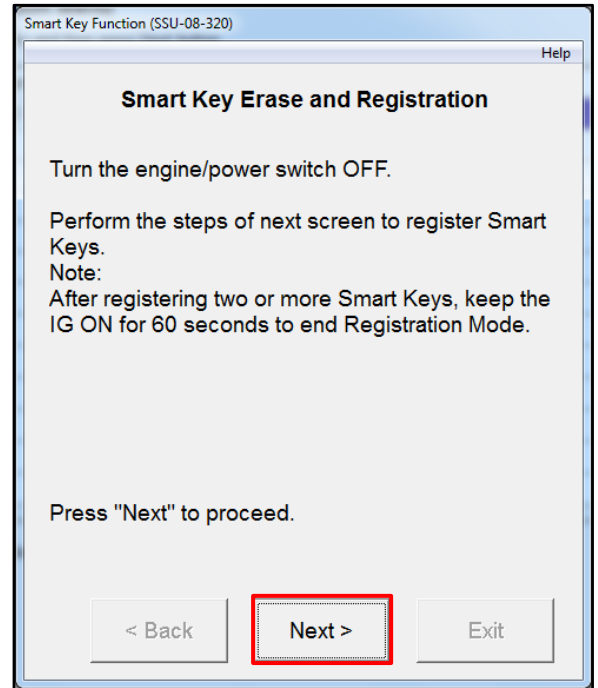
Procedure C – Smart Key Erase and Registration (Continued)

14. Turn the engine/power switch OFF.

NOTE

On the next screen you will be asked to turn the IG ON. The power switch indicator light will be blinking. You **MUST** touch the smart key to be registered to the power switch within 10 seconds.

Figure 34.

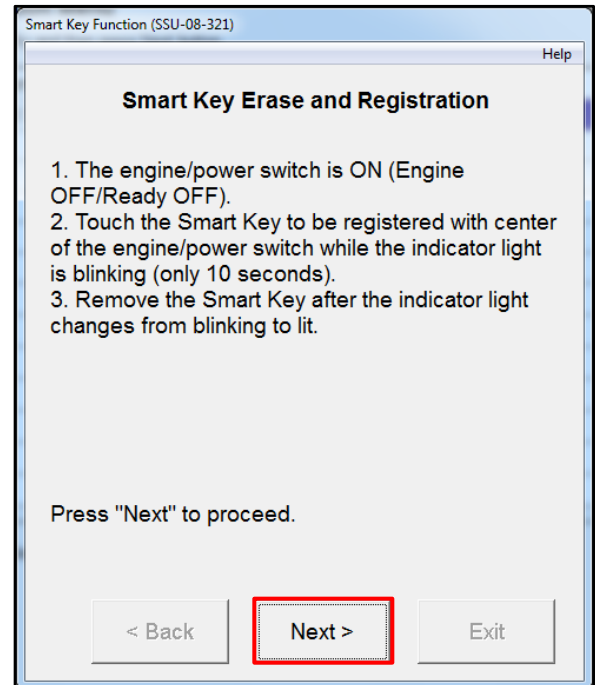


15. Follow the 3 steps on the screen.

NOTE

After finishing step 3, wait at least 60 seconds before pressing next. If you do **NOT** wait at least 60 seconds, you will have to start over.

Figure 35.



Techstream Smart Key Programming

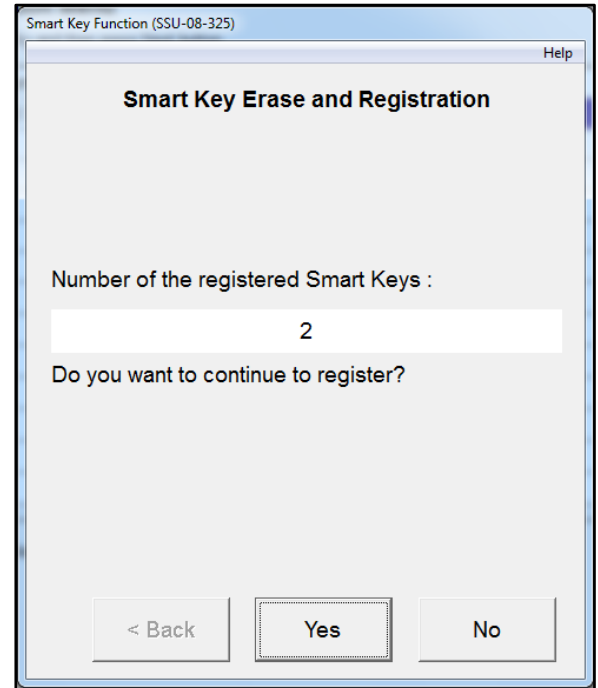
Procedure C – Smart Key Erase and Registration (Continued)

- This screen will show you how many keys you have registered. Press *No* unless you have a 3rd or 4th key to register.

NOTE

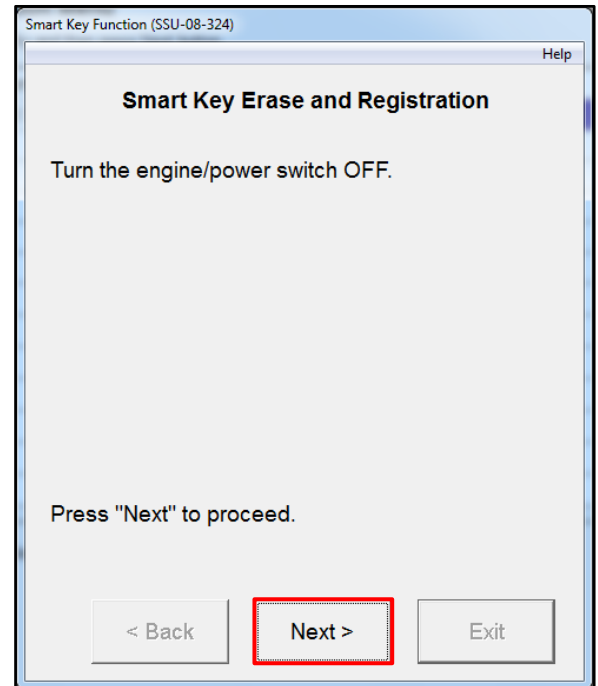
A maximum of 6 keys can be registered at 1 time.

Figure 36.



- Turn the engine/power switch OFF and press *Next*.

Figure 37.

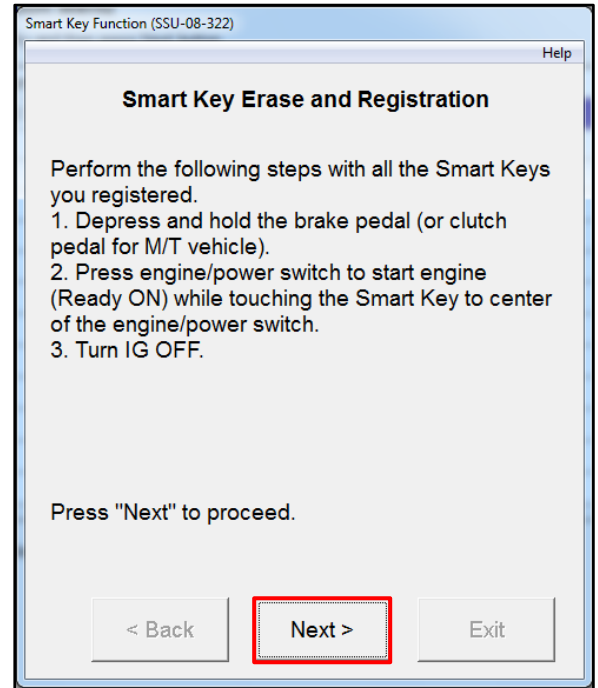


Techstream Smart Key Programming

Procedure C – Smart Key Erase and Registration (Continued)

18. Perform the steps on this screen with ALL of the registered keys.

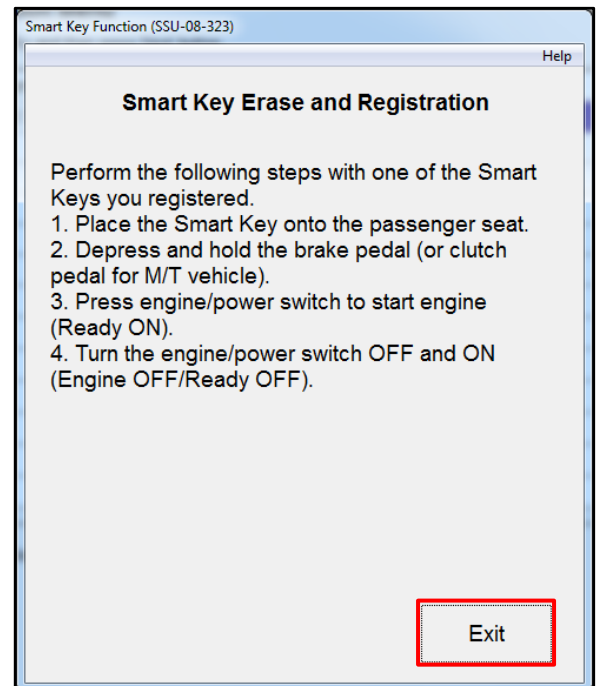
Figure 38.



19. Perform the steps on this screen with 1 of the registered keys. Press *Exit*.

This procedure is now complete.

Figure 39.

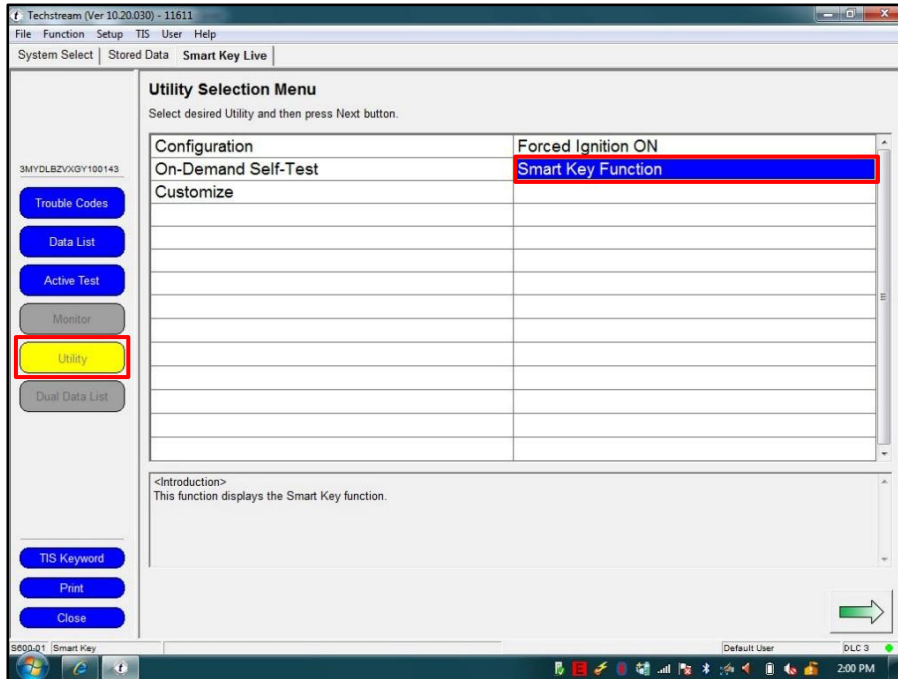


Techstream Smart Key Programming

Procedure D – Register Additional Smart Key

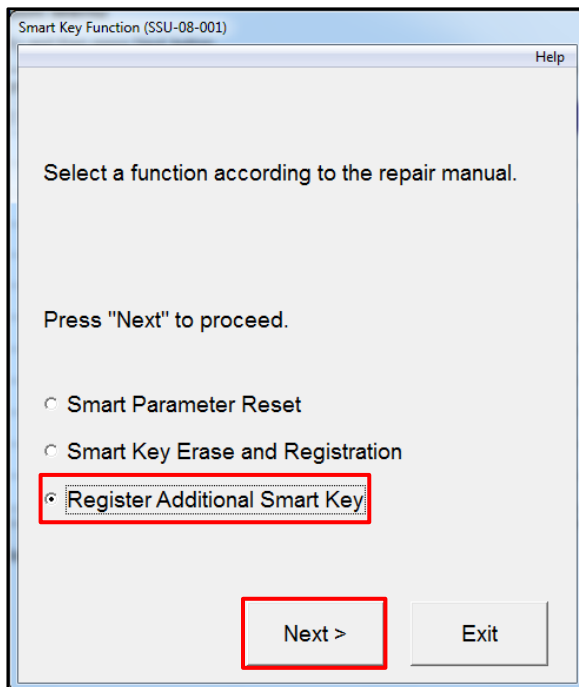
1. Select Smart Key Function.

Figure 40.



2. Select *Register Additional Smart Key* and press *Next*.

Figure 41.

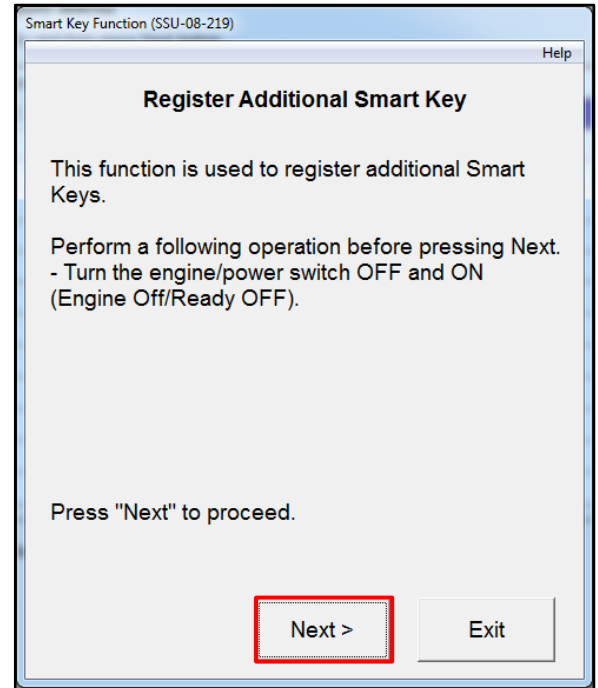


Techstream Smart Key Programming

Procedure D – Register Additional Smart Key (Continued)

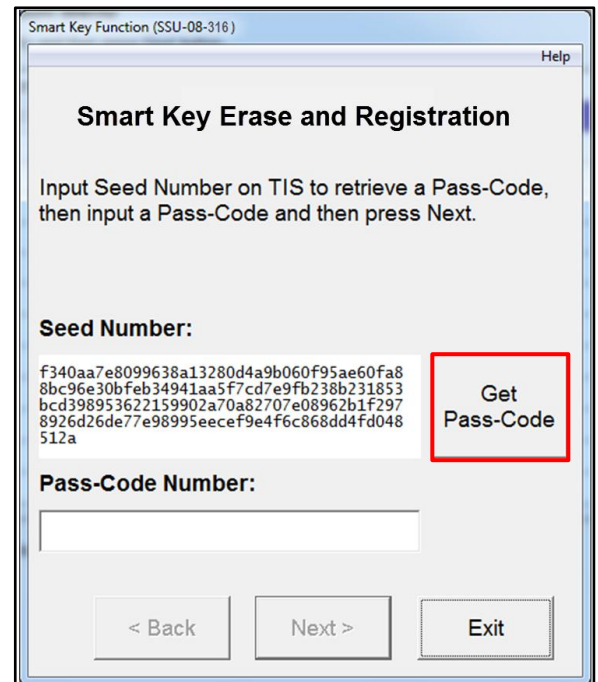
3. Turn the engine/power switch OFF and ON. Press *Next*.

Figure 42.



4. Techstream will generate a Seed Number. Click *Get Pass-Code*.

Figure 43.



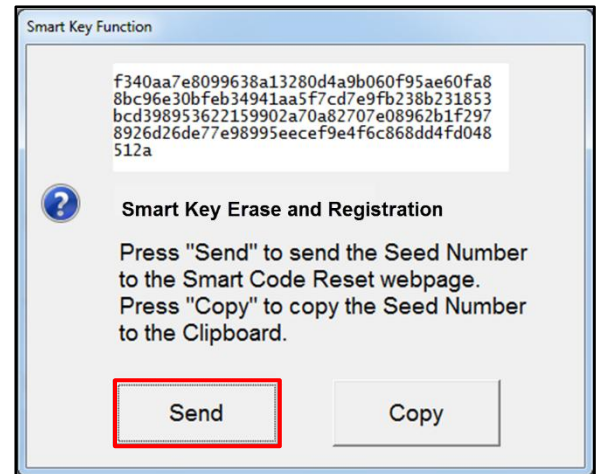
Techstream Smart Key Programming

Procedure D – Register Additional Smart Key (Continued)

- Click *Send* to connect to TIS.

NOTE
 Please refer to [T-SB-0043-14](#) "Immobilizer and Smart Key Reset" for the security authorization process.

Figure 44.



- Log into TIS.
- Enter your password.

Figure 45.



Techstream Smart Key Programming

Procedure D – Register Additional Smart Key (Continued)

8. Ensure the information is correctly populated and/or copied into the VIN, Repair Order/Parts Invoice Number, Customer Last Name, Techstream Software Version, and Seed Number sections and click *Next*.

Figure 46.

The screenshot shows the 'Key Code Reset' window in the Techstream software. The window has a navigation bar at the top with tabs for 'Library', 'Diagnostics', 'Tech Assistance', and 'Vehicle Inquiry'. Below this is a sub-menu with 'ScanTool', 'Calibrations', 'Immobilizer Reset' (selected), 'Key Code', 'Telematics', and 'Navigation'. The main content area is titled 'Key Code Reset' and contains the following text: 'Please complete the following fields to receive a passcode.' Below this are several input fields: 'Request No:', 'Dealer Code:', 'Dealer Name:', 'Technician Name:', 'Vehicle VIN:', 'Repair Order/Parts Invoice Number:', 'Customer Last Name:', '*Techstream Software Version' (with a text input field), and '*Seed Number (from scantool):' (with a text input field). There is a section for 'Positive Identification Policy' with three checked checkboxes: 'I have verified the customer's authority to obtain vehicle security information for this vehicle.', 'I have verified the customer's full legal name and confirmed their identity with a valid picture ID.', and 'I have or will visually confirm the vehicle's registration document and ownership.' Below this is a 'Note' stating: 'Details of this transaction will be included in the Monthly Vehicle Security Transaction Report sent to the Dealer GM. Also, a log of each transaction is sent to the National Insurance Crime Bureau.' A legend indicates that '*' indicates a required field. At the bottom, there is a grey bar with 'Request Status for Request No: 14063000028', 'Request Status: Approved', 'Request Time:', and 'Approval Valid Till:'. Below this bar are three buttons: 'Back', 'Clear', and 'Next' (which is highlighted in red).

Techstream Smart Key Programming

Procedure D – Register Additional Smart Key (Continued)

- The Passcode will then be provided as shown. Copy the Passcode.

Figure 47.

The screenshot shows the 'Immobilizer Reset' screen in the Techstream software. The interface includes a top navigation bar with 'Library', 'Diagnostics', 'Tech Assistance', and 'Vehicle Inquiry'. Below this is a secondary bar with 'ScanTool', 'Calibrations', and 'Immobilizer Reset'. The main content area is titled 'Key Code Reset' and contains the following sections:

- Request Details:** A list of fields including Request No., Dealer Code, Dealer Name, Technician Name, Vehicle VIN, Repair Order/Parts Invoice Number, Customer Last Name, and Techstream Software Version.
- Positive Identification Policy:** A list of four checkboxes, all of which are checked. The items are: 'I have verified the customer's authority to obtain vehicle security information for this vehicle.', 'I have verified the customer's full legal name and confirmed their identity with a valid picture ID.', 'I have or will visually confirm the vehicle's registration document and ownership.', and 'I agree to the TIS Terms and Conditions.'
- Request Approval Policy:** A list of three checkboxes, all of which are checked. The items are: 'I have verified the details entered for this request and confirmed the authority of the customer was verified.', 'I realize that upon retrieval, a transaction log will be posted to the National Insurance Crime Bureau.', and 'I agree to the TIS Terms and Conditions.'

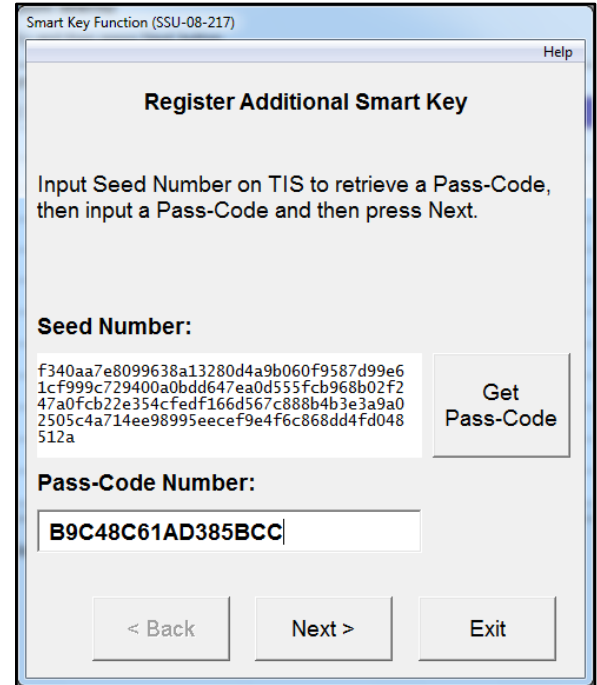
At the bottom of the screen, a message reads: 'Thank You [redacted]! Your Immobilizer Passcode: **B9C48C61AD385BCC**'. A red arrow points to the passcode, which is enclosed in a red oval. Below the message is a button labeled 'Immobilizer Reset Home'.

Techstream Smart Key Programming

Procedure D – Register Additional Smart Key (Continued)

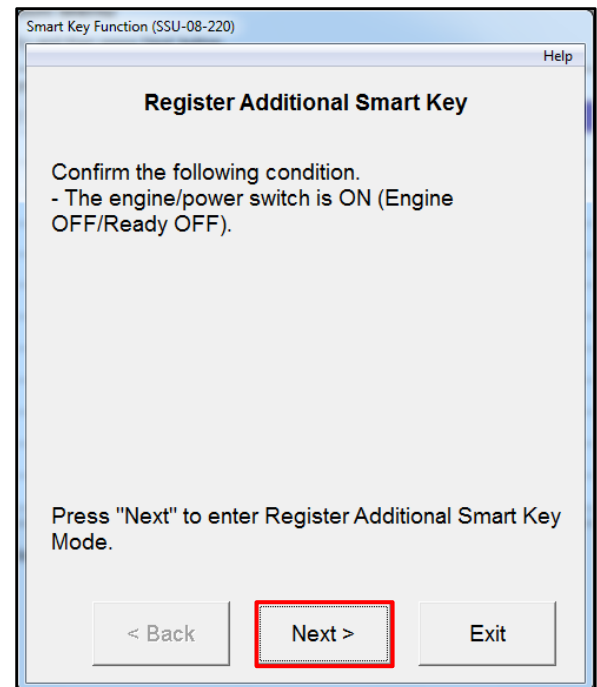
- Paste the Pass-Code Number back into Techstream as shown below.

Figure 48.



- Confirm the engine/power switch is ON (Engine OFF/Ready OFF).

Figure 49.

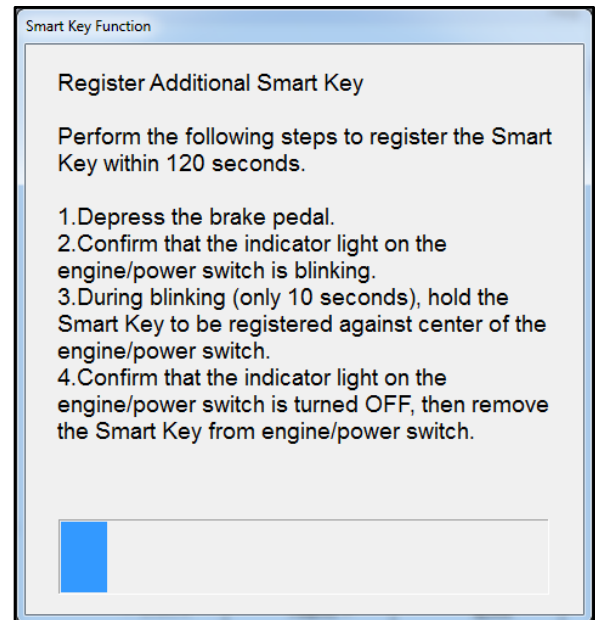


Techstream Smart Key Programming

Procedure D – Register Additional Smart Key (Continued)

12. Perform the steps on the screen within 120 seconds.

Figure 50.

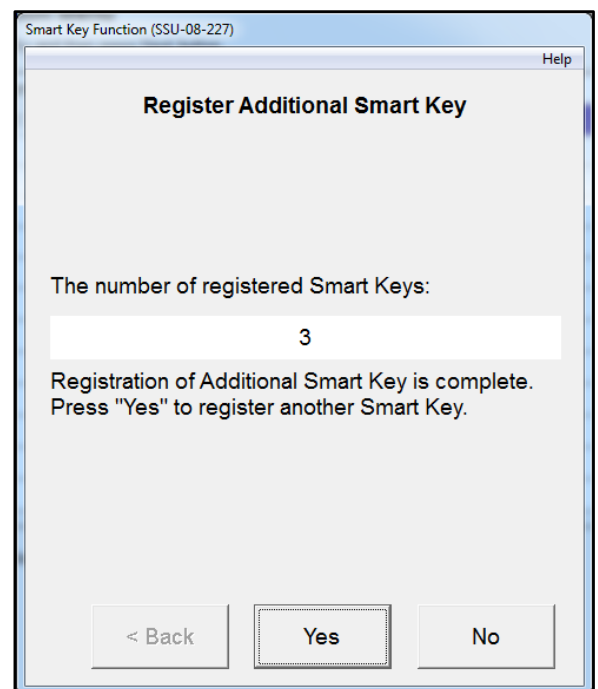


13. This screen will show you how many keys you have registered. Press *No* unless you have a 4th or 5th key to register.

NOTE

A maximum of 6 keys can be registered at 1 time.

Figure 51.

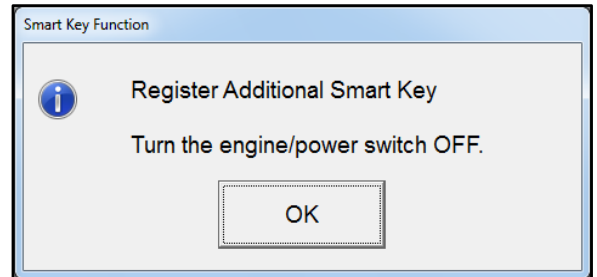


Techstream Smart Key Programming

Procedure D – Register Additional Smart Key (Continued)

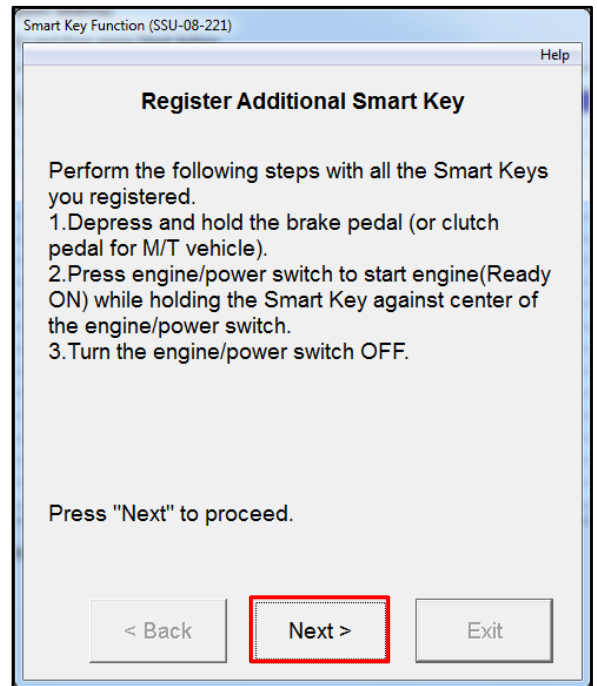
14. Turn the IG OFF (engine/power switch OFF).

Figure 52.



15. Follow the steps on the screen. Press *Next*.

Figure 53.



Techstream Smart Key Programming

Procedure D – Register Additional Smart Key (Continued)

16. Follow the steps on the screen and press *Exit*.

Figure 54.

