


# Techstream Smart Key Programming

**Service Category** Vehicle Interior

**Section** Theft Deterrent/Keyless Entry

**Market** USA

Scion Supports  
ASE Certification 

## Applicability

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

## Introduction

The Scion iA is equipped with Smart Start and Remote Keyless Entry. This bulletin details the Techstream key programming process. Please 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	—	—	—	—

## 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 **10.30.029** or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at **1-800-368-6787**.

## Techstream Smart Key Programming

### 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 programmed for the engine to start
- A maximum of 6 (six) keys can be programmed to one vehicle
- The number of programmed keys can be verified by Techstream
- Techstream must be connected to the network for each process outlined in this bulletin.

Techstream Utility	When to Use	PROCEDURE
Forced IG-ON	<ul style="list-style-type: none"> <li>• All keys are lost, and IG has to be ON to enter Smart Key Utility</li> </ul>	A (See Page 3)
Smart Parameter Reset	<ul style="list-style-type: none"> <li>• Needed if you replace the Smart ECU</li> <li>• Needed if you replace the PCM</li> </ul>	B (See Page 7)
Smart Key Erase and Registration	<p>If one 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>	C (See Page 14)
Register Additional Smart Key	<ul style="list-style-type: none"> <li>• Needed if you want to add one key.</li> <li>• Need to have at least one key to do this utility</li> </ul>	D (See Page 24)

#### NOTE

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

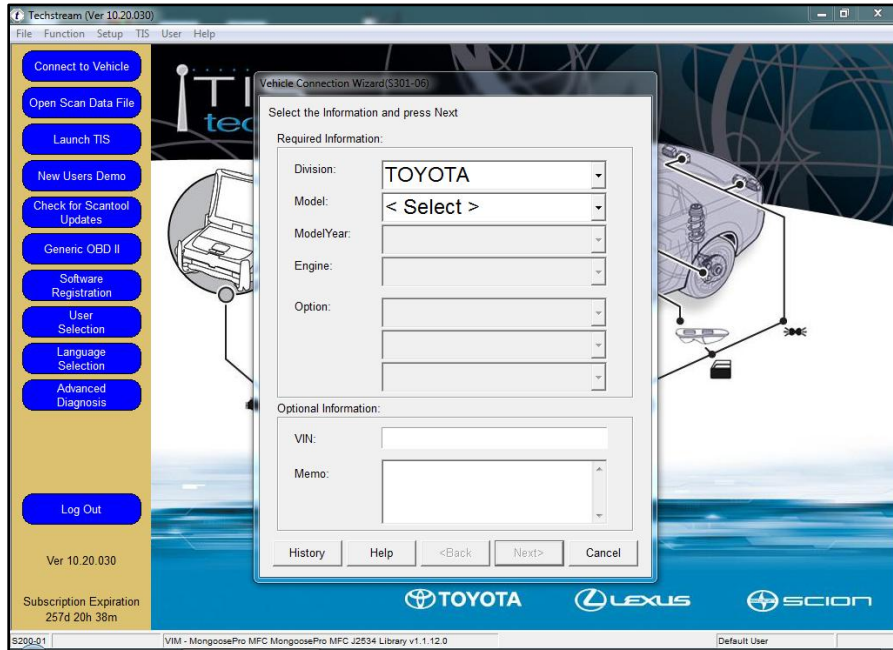
#### NOTE

Procedures B, C, and D require a Seed Number and Passcode.

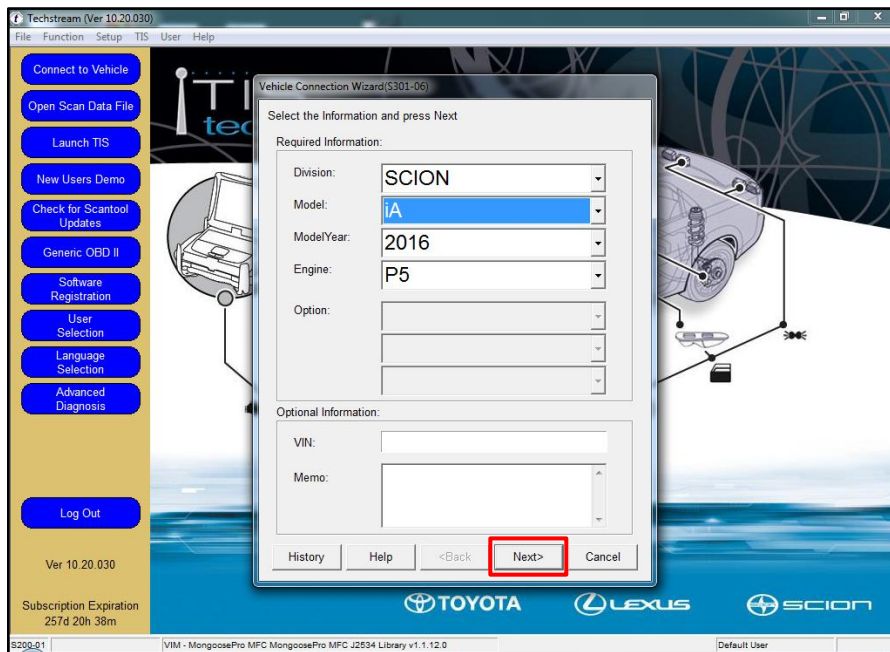
# Techstream Smart Key Programming

## Procedure A – Forced IG-ON

1. Connect Techstream to the vehicle.



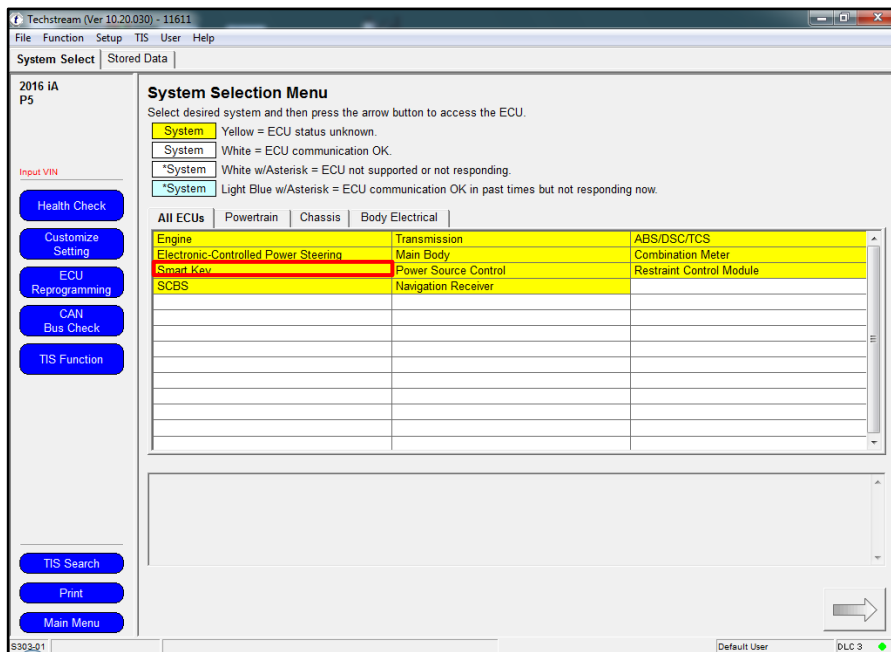
2. Choose Scion, iA, 2016, P5 and press Next.



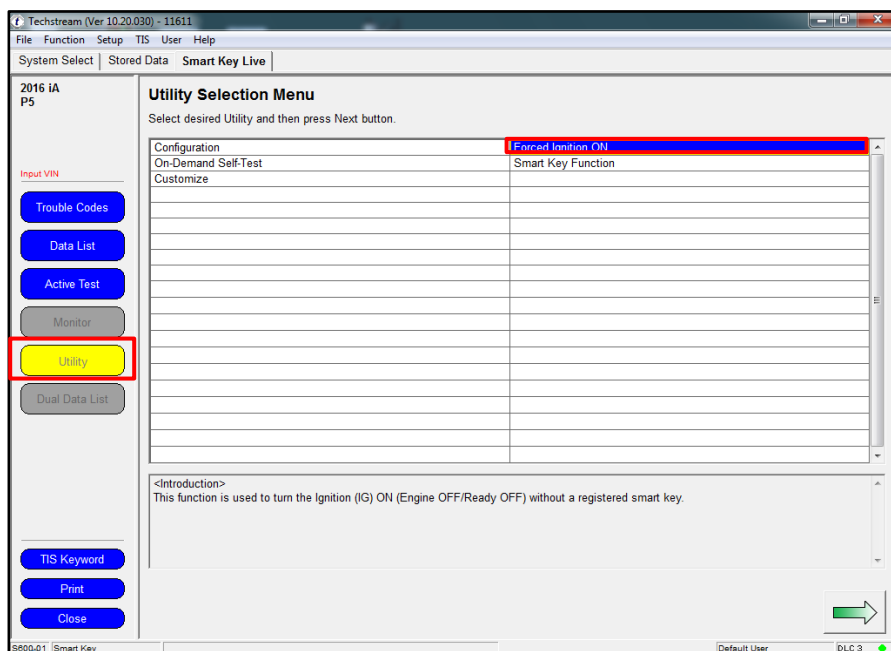
# Techstream Smart Key Programming

## Procedure A – Forced IG-ON (Continued)

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



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

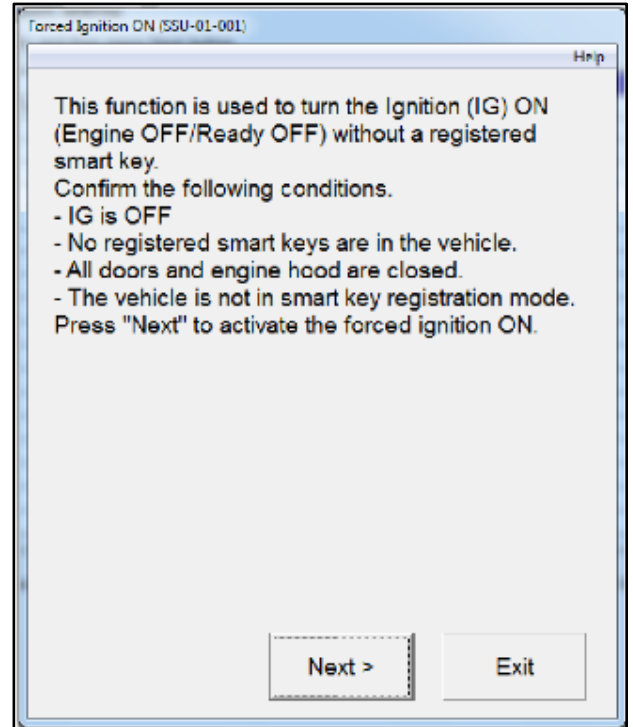


## Techstream Smart Key Programming

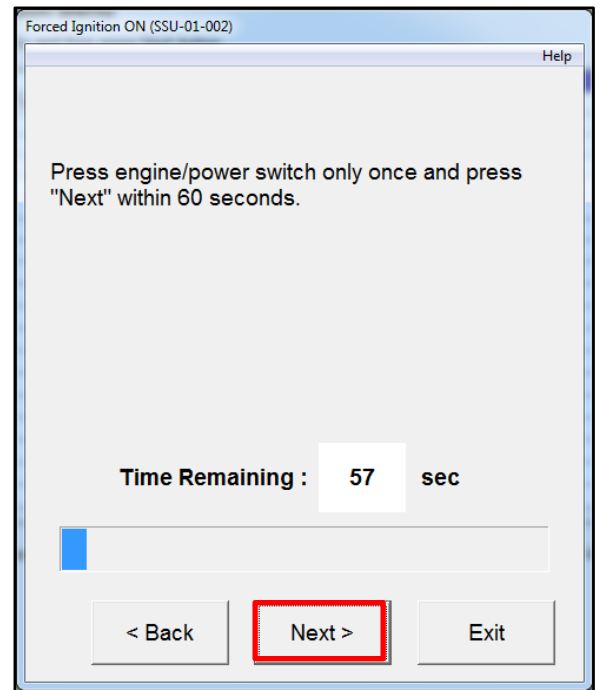
### Procedure A – Forced IG-ON (Continued)

5. The Forced Ignition ON Utility will begin.

Please follow the prompts on the screens.



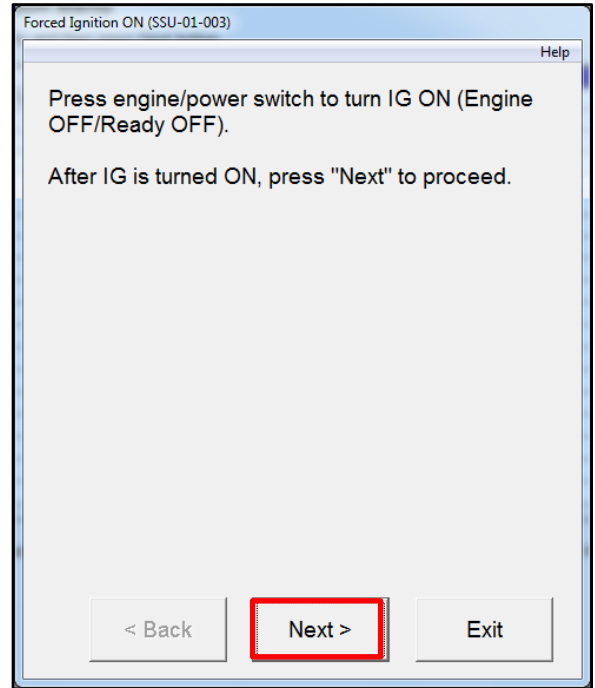
6. Press the engine/power switch once and press *Next* within 60 seconds.



## Techstream Smart Key Programming

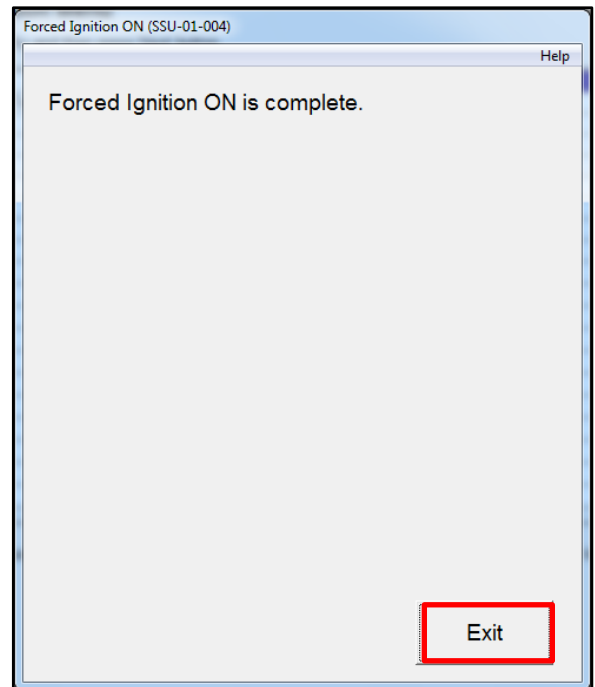
### Procedure A – Forced IG-ON (Continued)

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.



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

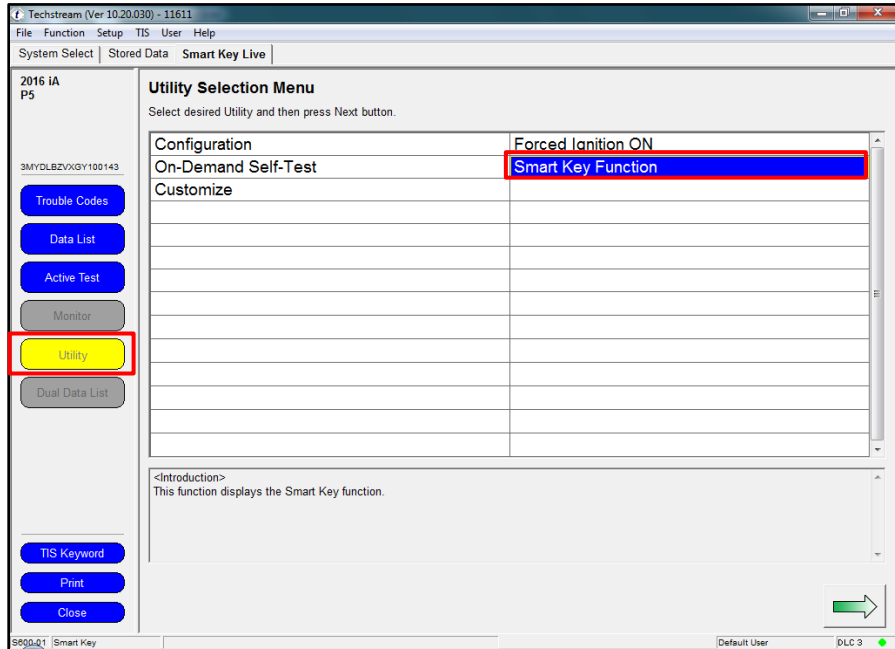
Proceed to Procedure C.



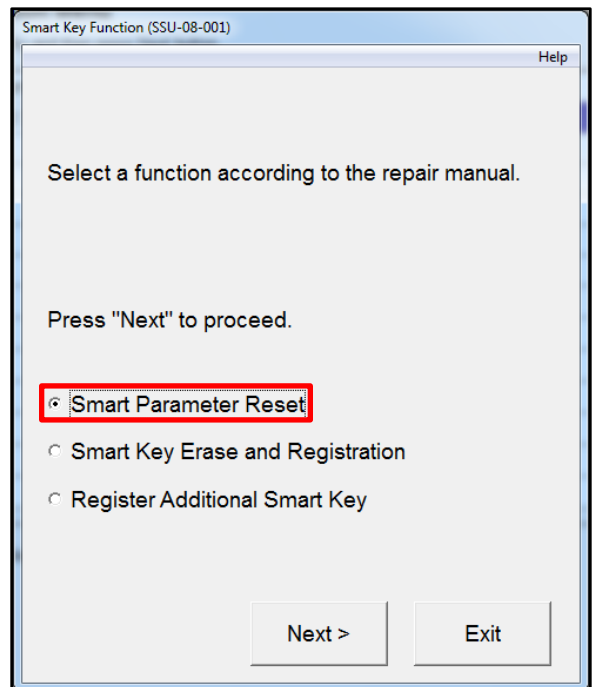
# Techstream Smart Key Programming

## Procedure B – Smart Parameter Reset

1. Select *Smart Key Function*.



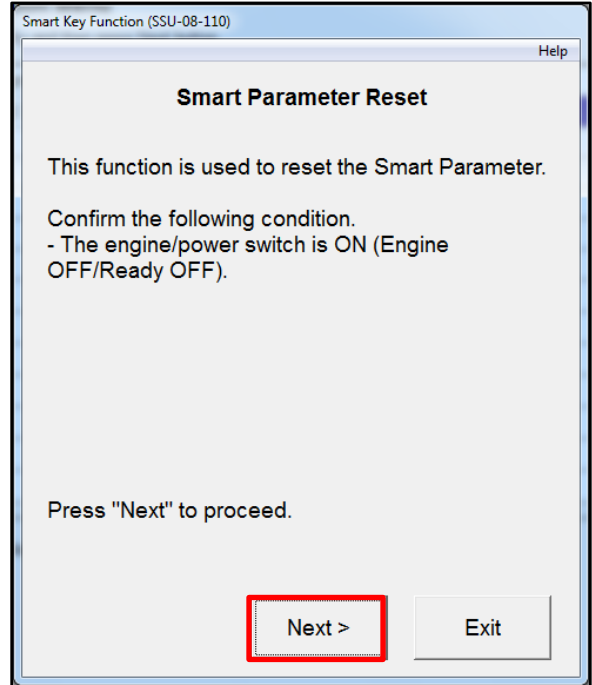
2. Select *Smart Parameter Reset*.



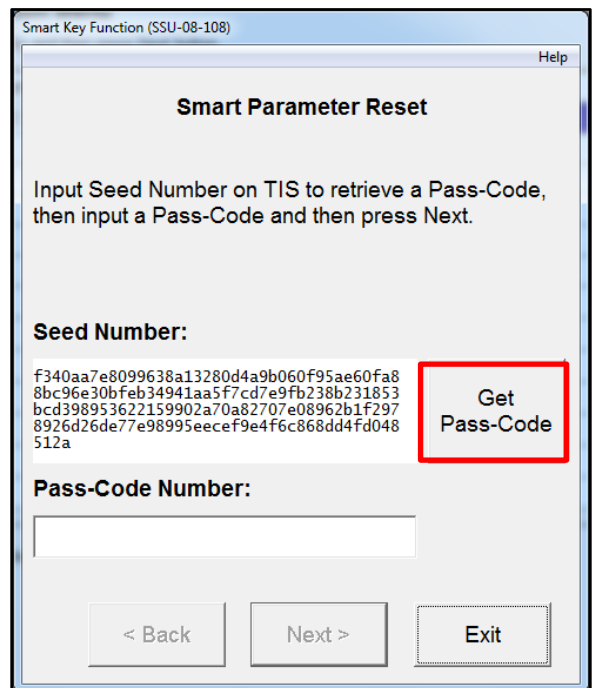
## Techstream Smart Key Programming

### Procedure B – Smart Parameter Reset (Continued)

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



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





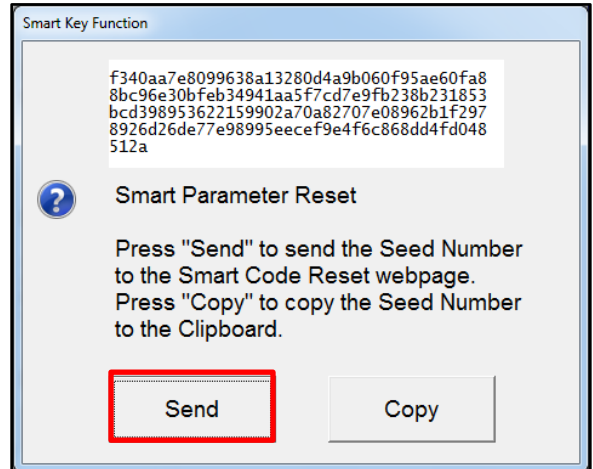
# Techstream Smart Key Programming

## Procedure B – Smart Parameter Reset (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.



- Log into TIS.

- Enter your password.



# 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*.

**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  
 Manager:

Request Time:  
 Approval Valid Till:

[Back](#) [Clear](#) [Next](#)

## Techstream Smart Key Programming

### Procedure B – Smart Parameter Reset (Continued)

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

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

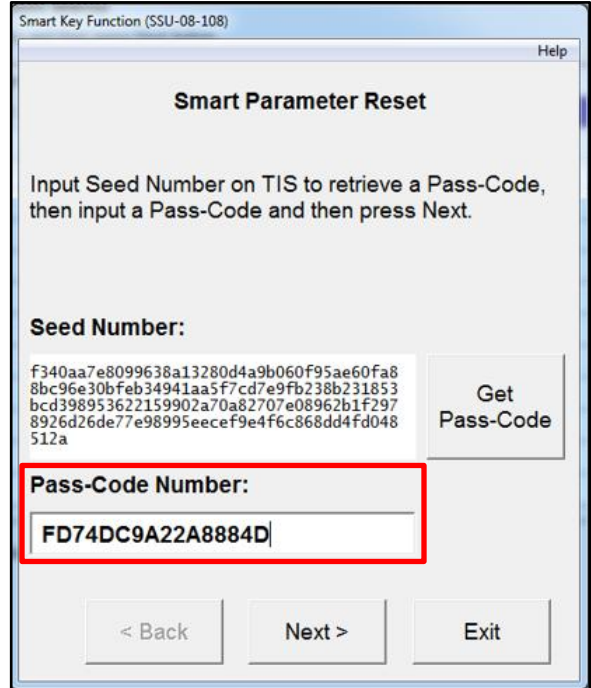
- Request Details:** A list of fields including Request No., Dealer Code, Dealer Name, Technician Name, Vehicle VIN, Repair Order/Parts Invoice Number, Customer Last Name, and Techstream Software Version.
- Positive Identification Policy:** A list of four checkboxes, all of which are checked. The items 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 form, it says 'Thank You [redacted]! Your Immobilizer Passcode **FD74DC9A22A8884D**'. A red arrow points to this passcode, which is also circled in red. Below the passcode, there is a button labeled 'Immobilizer Reset Home'.

## Techstream Smart Key Programming

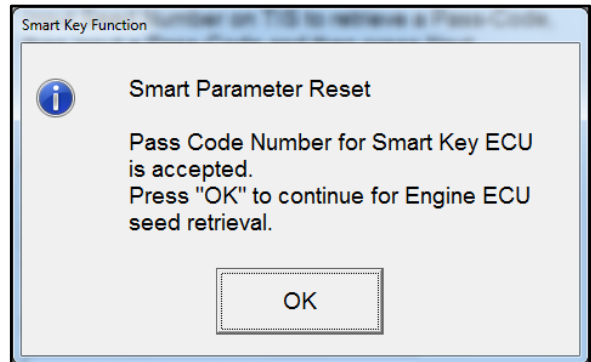
### Procedure B – Smart Parameter Reset (Continued)

- Paste the Passcode Number back into Techstream as shown below.



- The Smart Parameter Reset for the Smart Key ECU is now complete.

After clicking *OK*, you will be returned to the “Get-Passcode” screen to retrieve a pass-code for the Engine ECU.



## Techstream Smart Key Programming

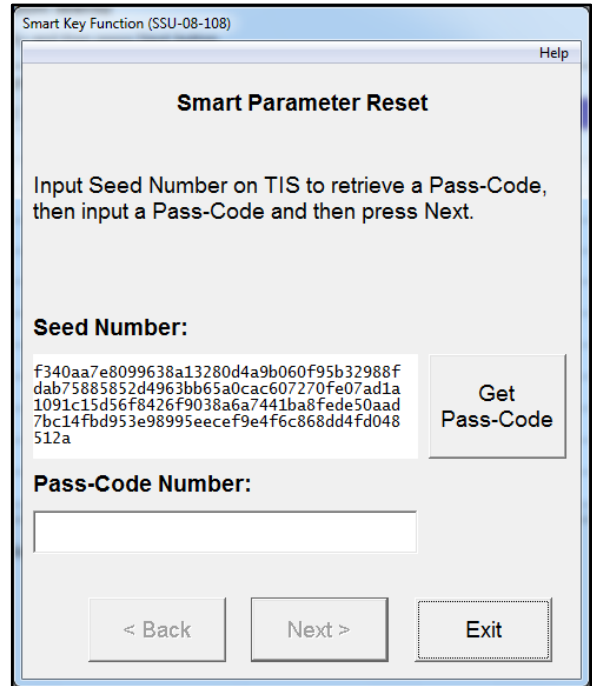
### Procedure B – Smart Parameter Reset (Continued)

- Complete the Smart Parameter Reset for the Engine ECU.

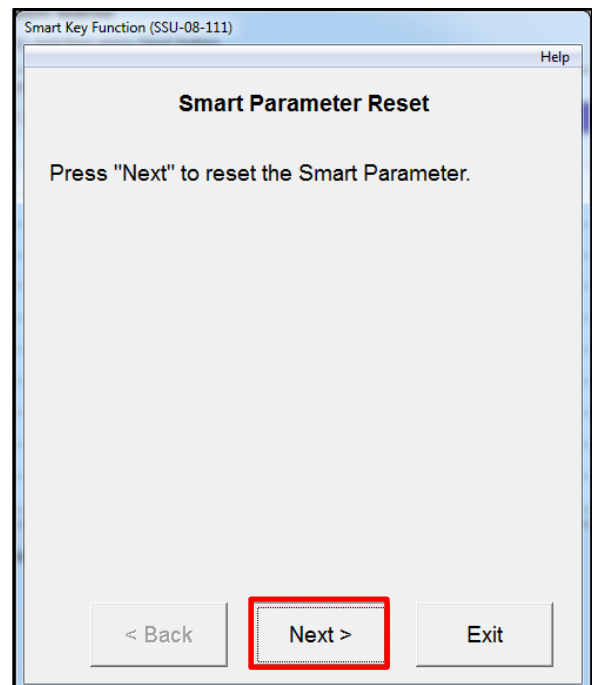
Repeat steps 4 – 10 to retrieve a 2<sup>nd</sup> passcode for the Engine ECU.

**NOTE**

You MUST retrieve a 2<sup>nd</sup> passcode.



- Click *Next* to reset the Smart Parameter.



## Techstream Smart Key Programming

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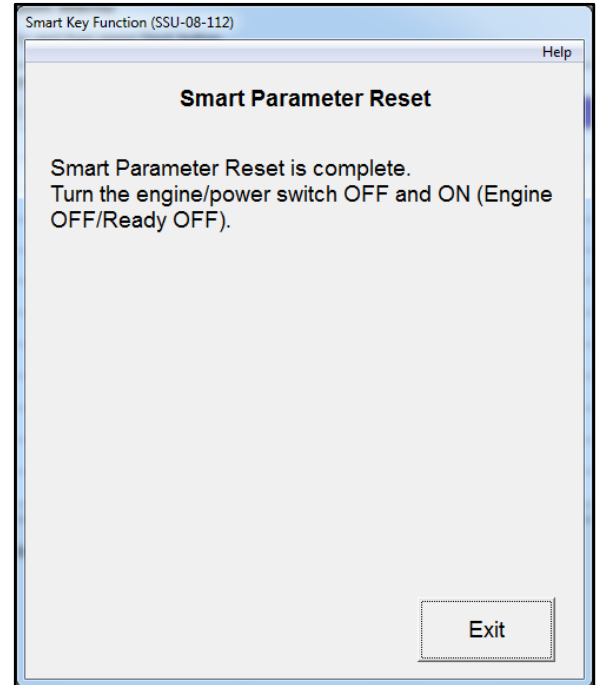
### Procedure B – Smart Parameter Reset (Continued)

14. The Smart Parameter Reset is now complete.

Turn the engine/power switch OFF and ON (Engine OFF/Ready OFF) and click *Exit*.

**NOTE**

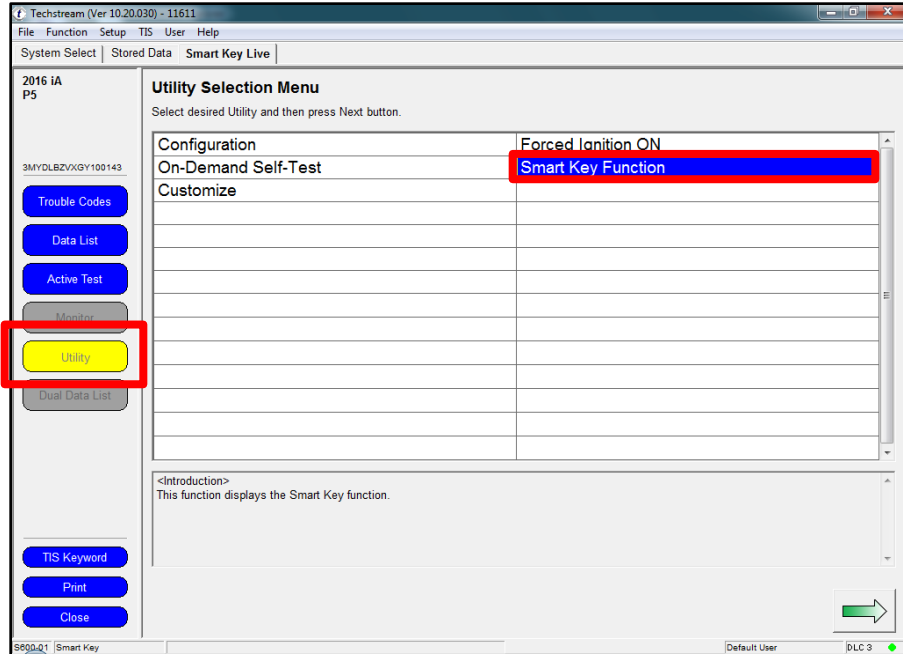
If you have replaced both the Engine ECU (PCM) AND the Smart ECU, you must proceed to Procedure C.



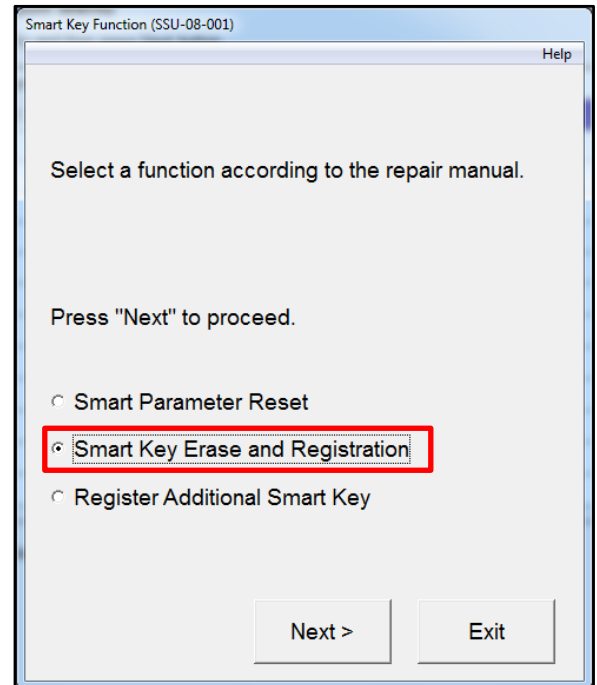
# Techstream Smart Key Programming

## Procedure C – Smart Key Erase and Registration

### 1. Select Smart Key Function.



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



## Techstream Smart Key Programming

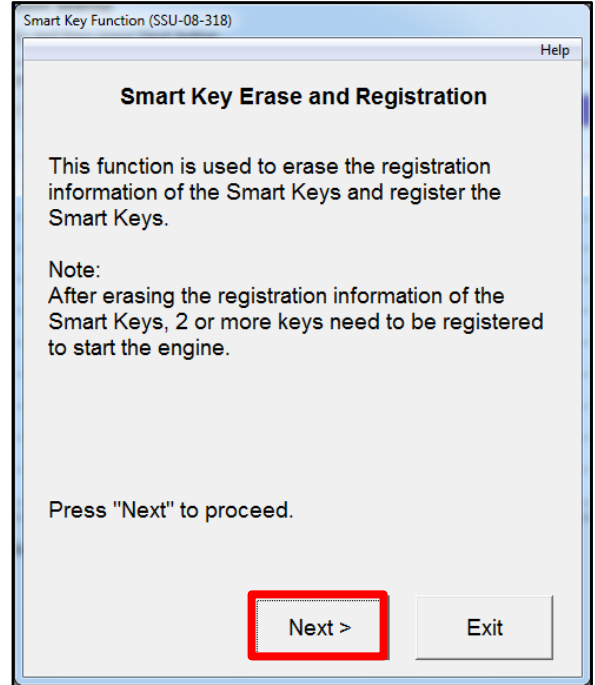
### Procedure C – Smart Key Erase and Registration (Continued)

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

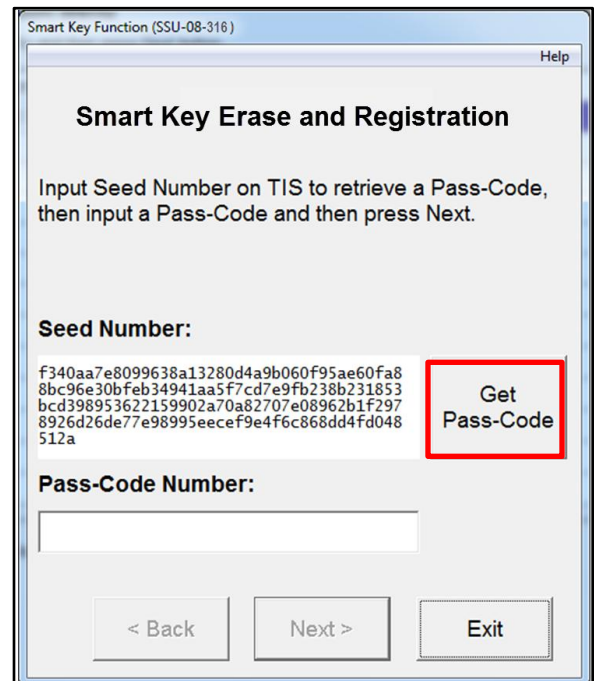
**NOTE**

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

Press *Next*



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





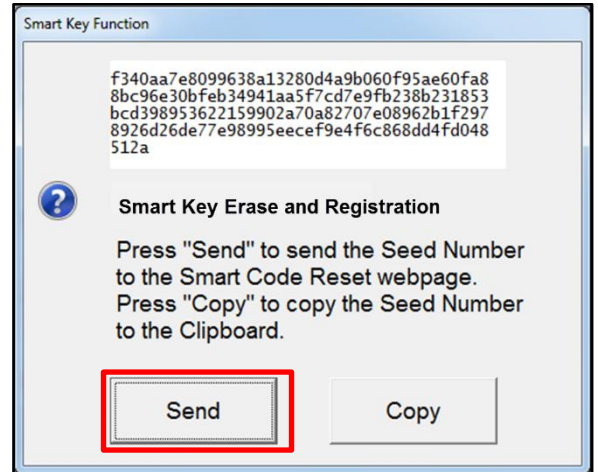
# Techstream Smart Key Programming

## 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.



- Log into TIS.
- Enter your password.



# 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*.

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 Pass-Code will be provided as shown. Copy the Passcode.

The screenshot shows the Techstream software interface for an Immobilizer Reset. The top navigation bar includes 'Library', 'Diagnostics', 'Tech Assistance', and 'Vehicle Inquiry'. Below this, there are tabs for '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 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.
  - 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 checked checkboxes:
  - 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.

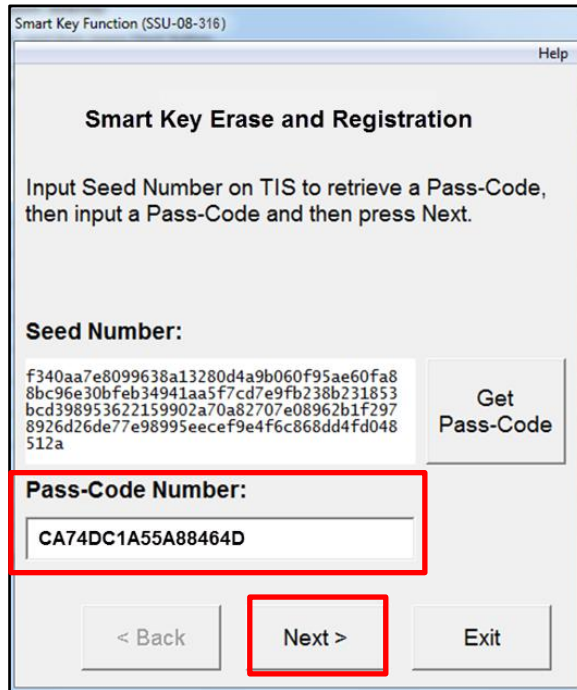
At the bottom of the form, it says 'Thank You [redacted]! Your Immobilizer Passcode: **CA74DC1A55A88464D**'. A red arrow points to this passcode, which is enclosed in a red oval. Below the passcode, there is a button labeled 'Immobilizer Reset Home'.

## Techstream Smart Key Programming

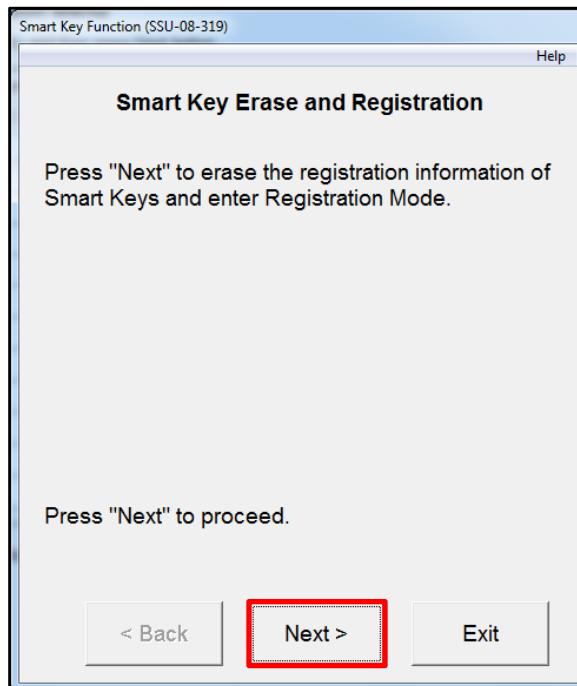
### Procedure C – Smart Key Erase and Registration (Continued)

- Paste the Passcode Number back into Techstream as shown below.

Press *Next*.



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



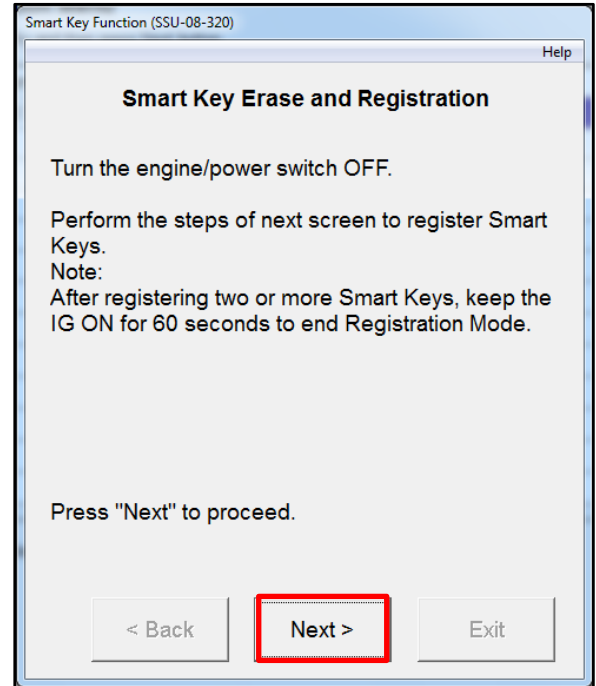
## Techstream Smart Key Programming

### Procedure C – Smart Key Erase and Registration (Continued)

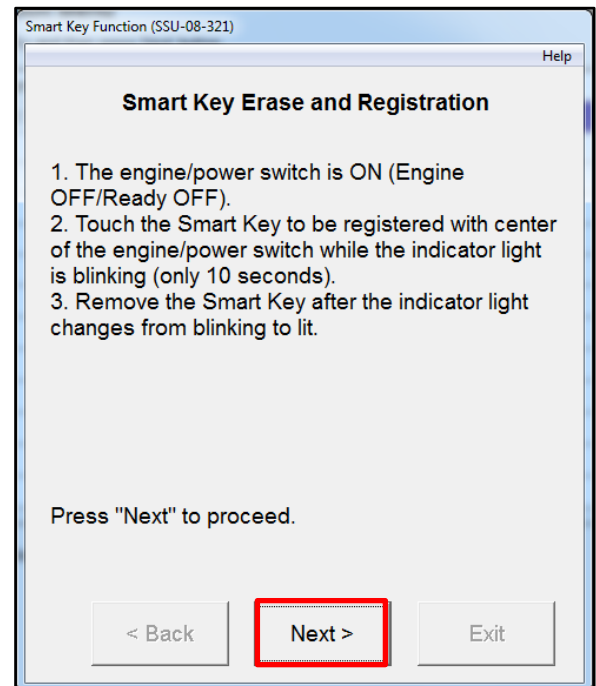
12. Turn the engine/power switch OFF.

**NOTE**

- After registering two 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.



13. Follow the 3 steps on the screen.



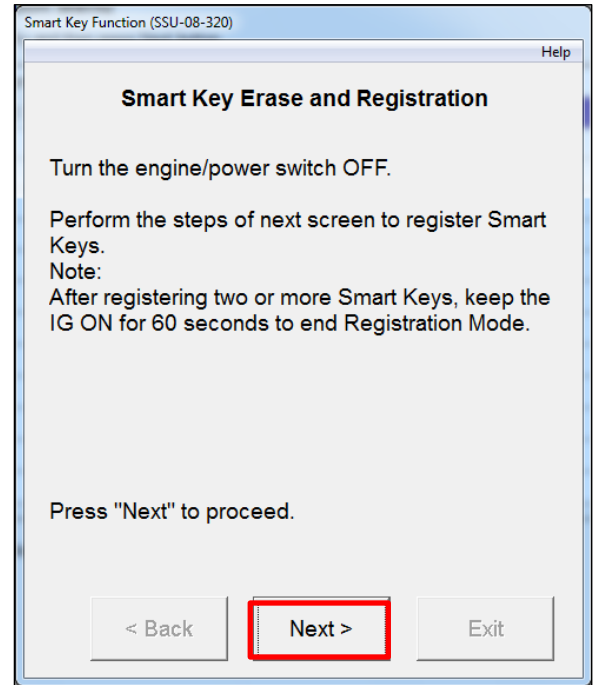
## Techstream Smart Key Programming

### Procedure C – Smart Key Erase and Registration (Continued)

14. Turn the engine/power switch OFF.

**NOTE**

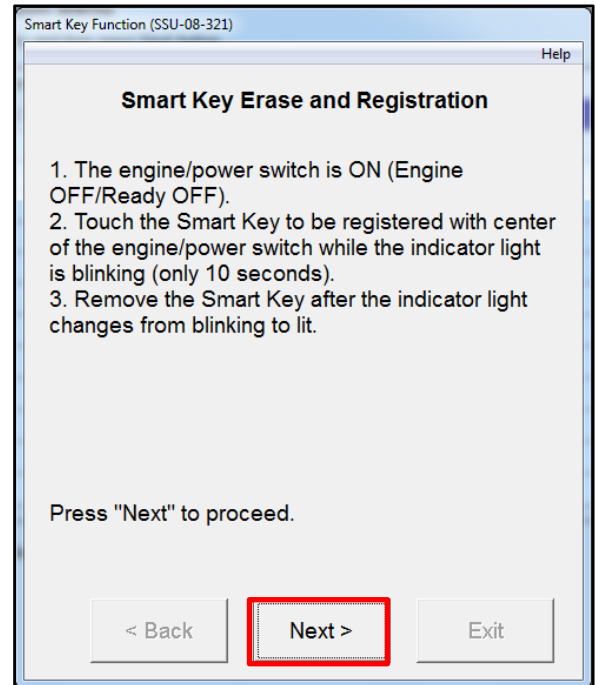
On the next screen you will be asked to turn the IG ON. The power switch indicator light will be blinking. You **MUST** touch the smart key to be registered to the power switch within **10 seconds**.



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.



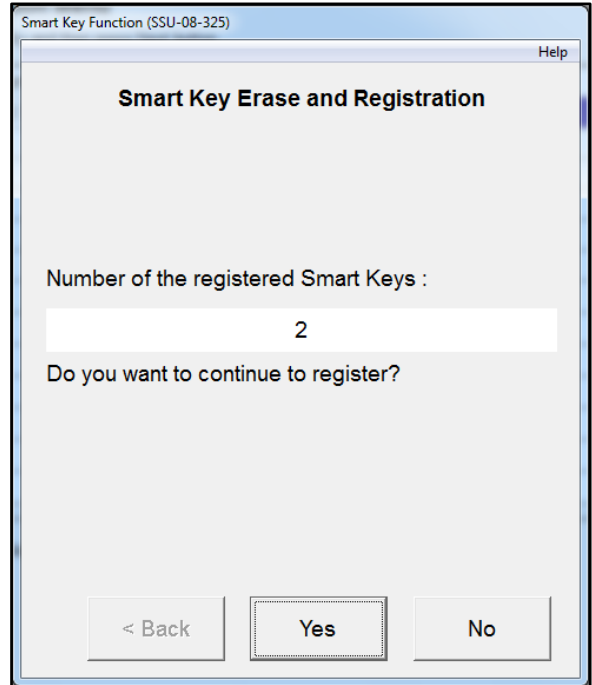
## Techstream Smart Key Programming

### Procedure C – Smart Key Erase and Registration (Continued)

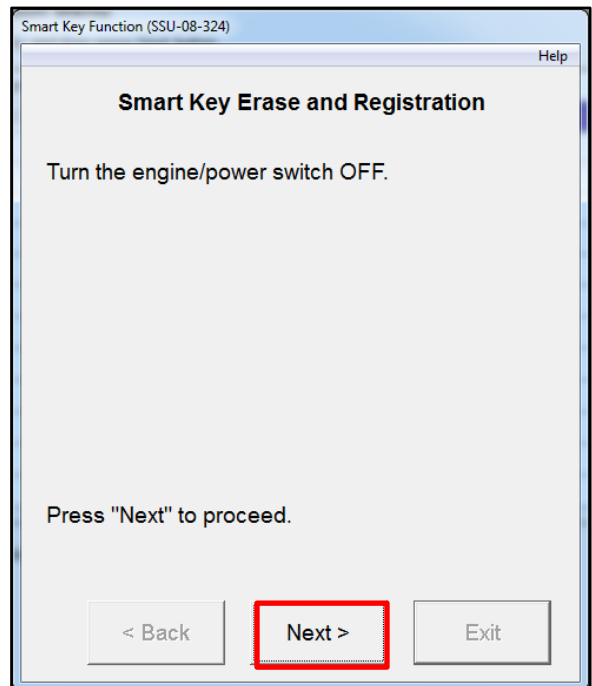
16. This screen will show you how many keys you have registered. Press *No* unless you have a 3<sup>rd</sup> or 4<sup>th</sup> key to register.

**NOTE**

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



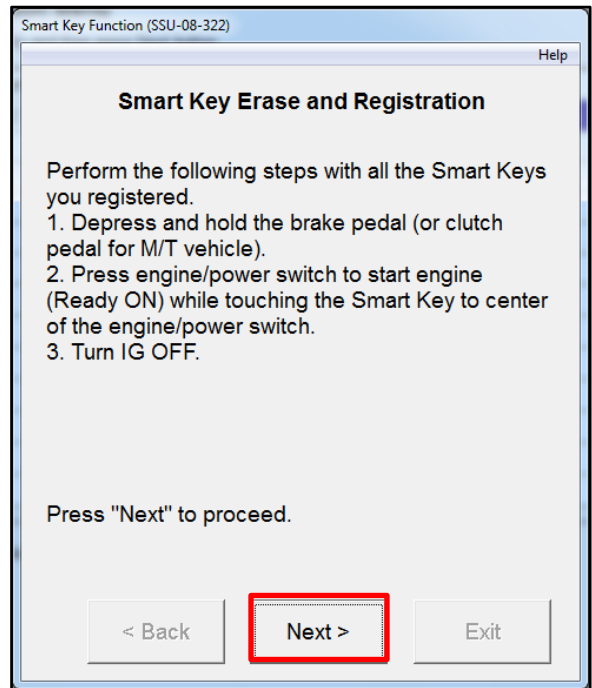
17. Turn the engine/power switch OFF.  
Press *Next*



## Techstream Smart Key Programming

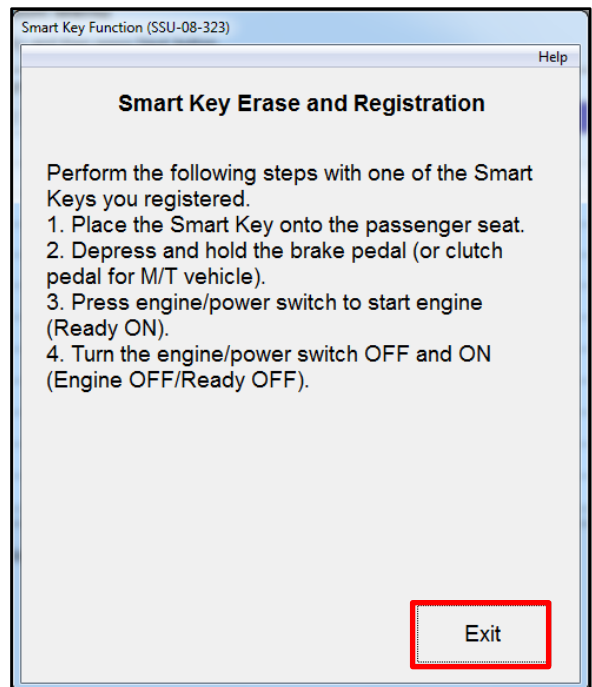
### Procedure C – Smart Key Erase and Registration (Continued)

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



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

This procedure is now complete.

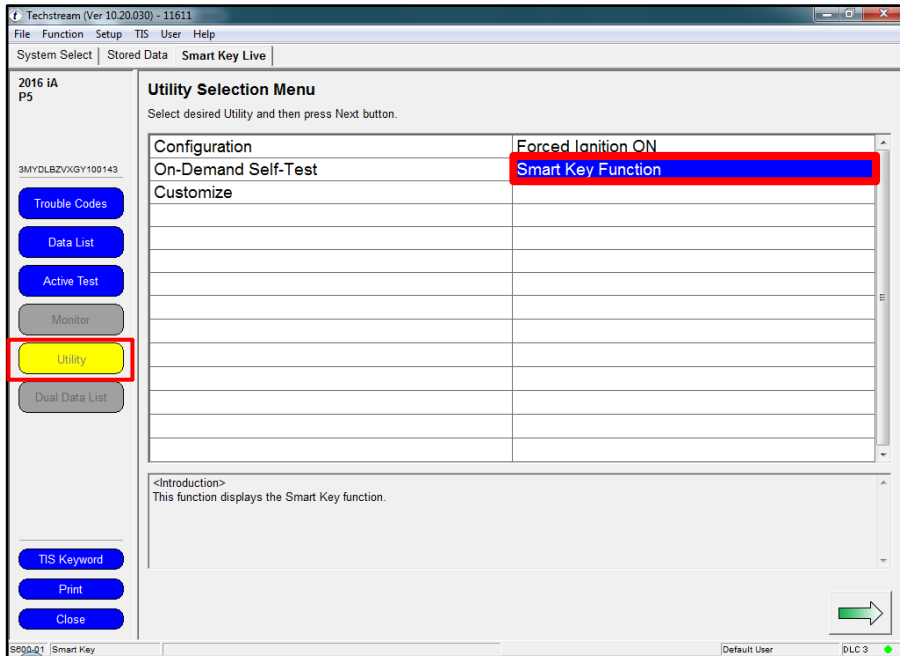




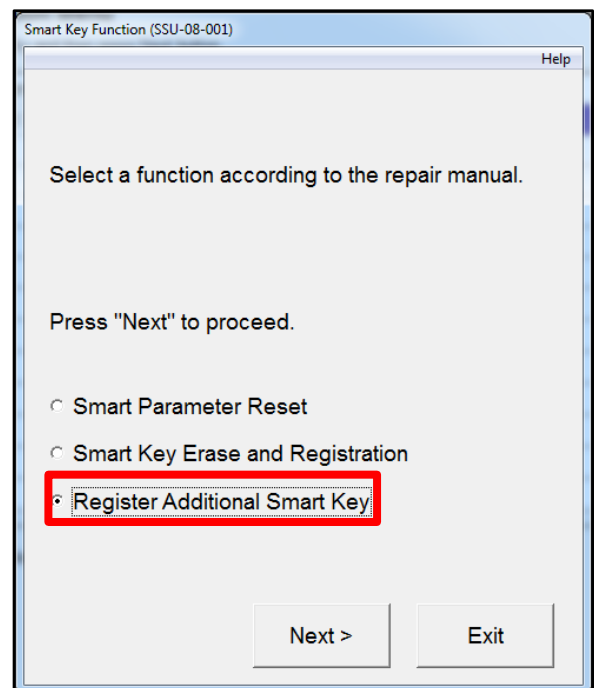
# Techstream Smart Key Programming

## Procedure D – Register Additional Smart Key (Continued)

1. Select Smart Key Function.



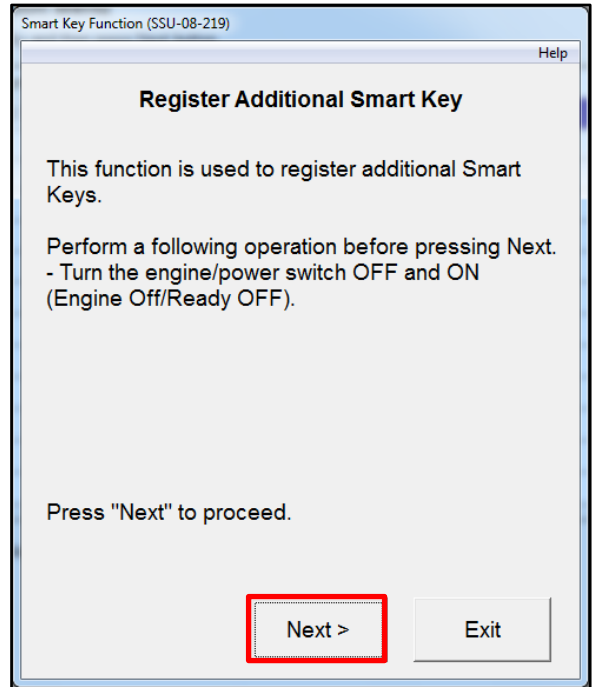
2. Select *Register Additional Smart Key* and press *Next*.



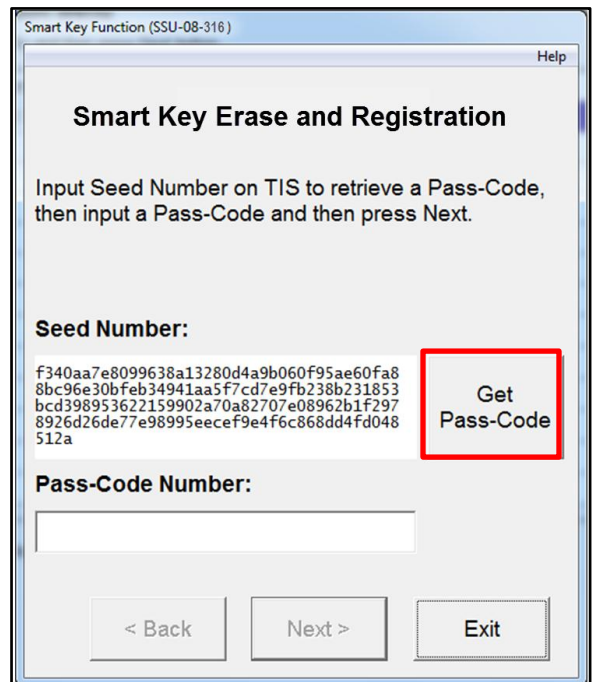
# Techstream Smart Key Programming

## Procedure D – Register Additional Smart Key (Continued)

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



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



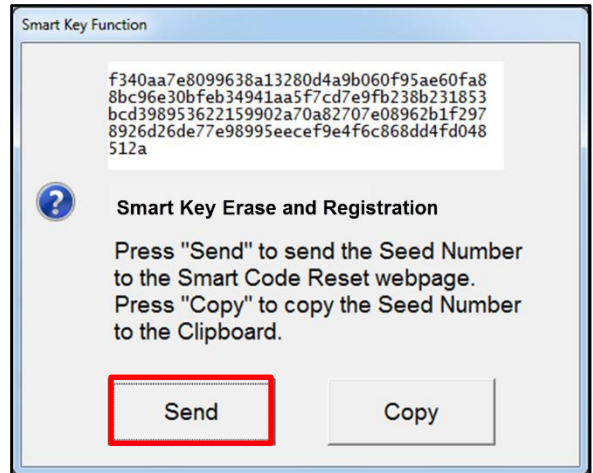
# Techstream Smart Key Programming

## Procedure D – Register Additional Smart Key

3. Click *Send* to connect to TIS.

**NOTE**

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



4. Log into TIS.
5. Enter your password.



# Techstream Smart Key Programming

## Procedure D – Register Additional Smart Key (Continued)

6. 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*.

**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  
 Manager:  
 Request Time:  
 Approval Valid Till:

## Techstream Smart Key Programming

### Procedure D – Register Additional Smart Key (Continued)

- The Pass-Code will then be provided as shown. Copy the Pass-Code.

The screenshot shows the 'Immobilizer Reset' window in the Techstream software. The window has 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:

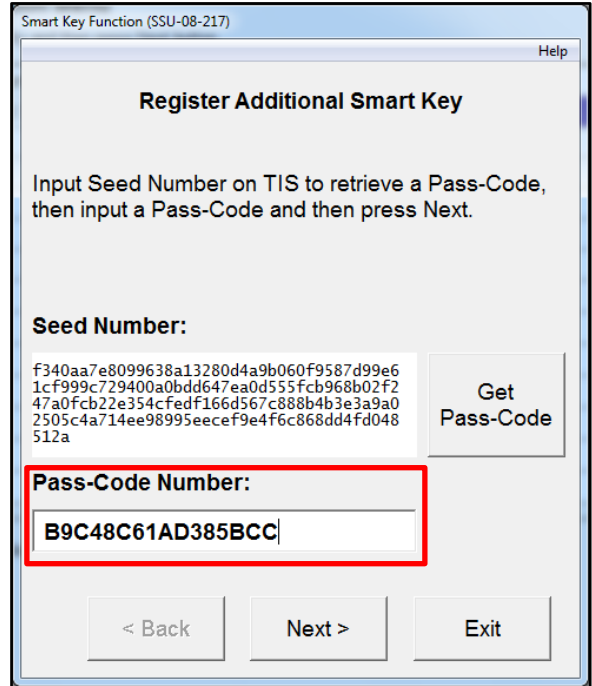
- Request Details:** Fields for Request No., Dealer Code, Dealer Name, Technician Name, Vehicle VIN, Repair Order/Parts Invoice Number, Customer Last Name, and Techstream Software Version.
- Positive Identification Policy:** Three checked checkboxes:
  - I have verified the customer's authority to obtain vehicle security information for this vehicle.
  - I have verified the customer's full legal name and confirmed their identity with a valid picture ID.
  - I have or will visually confirm the vehicle's registration document and ownership.
- Request Approval Policy:** Three checked checkboxes:
  - 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 **B9C48C61AD385BCC**'. A red arrow points to the passcode. Below the passcode is a button labeled 'Immobilizer Reset Home'.

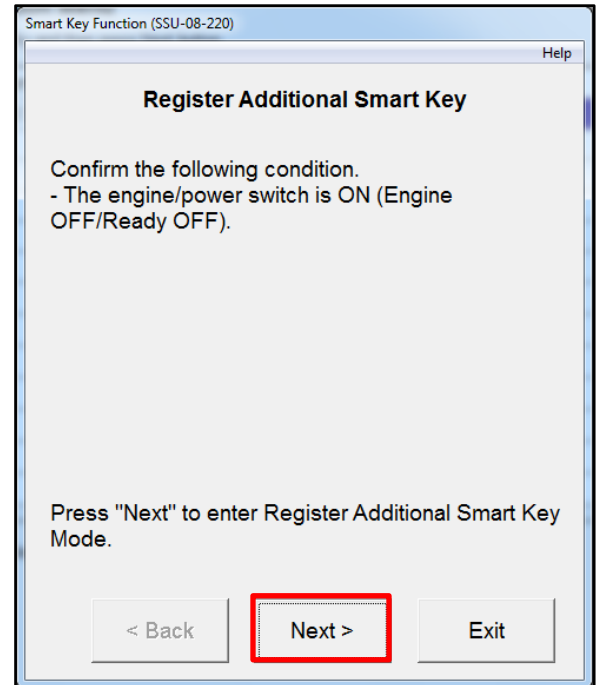
## Techstream Smart Key Programming

### Procedure D – Register Additional Smart Key (Continued)

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



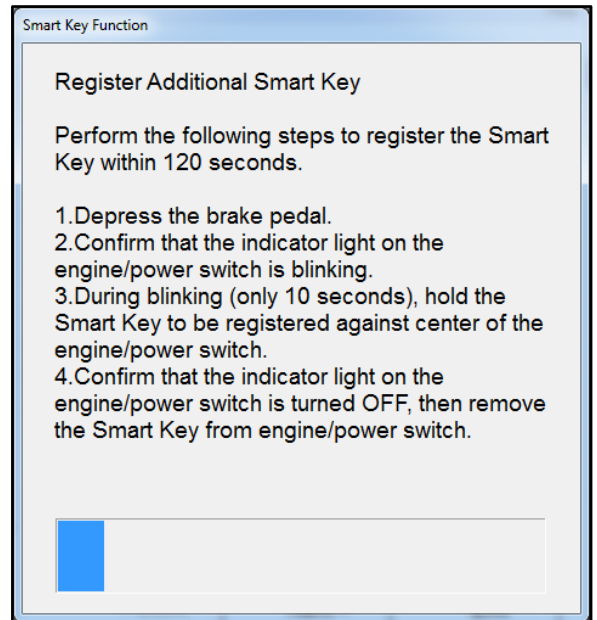
- Confirm the engine/power switch is ON (Engine OFF/Ready OFF).



## Techstream Smart Key Programming

### Procedure D – Register Additional Smart Key (Continued)

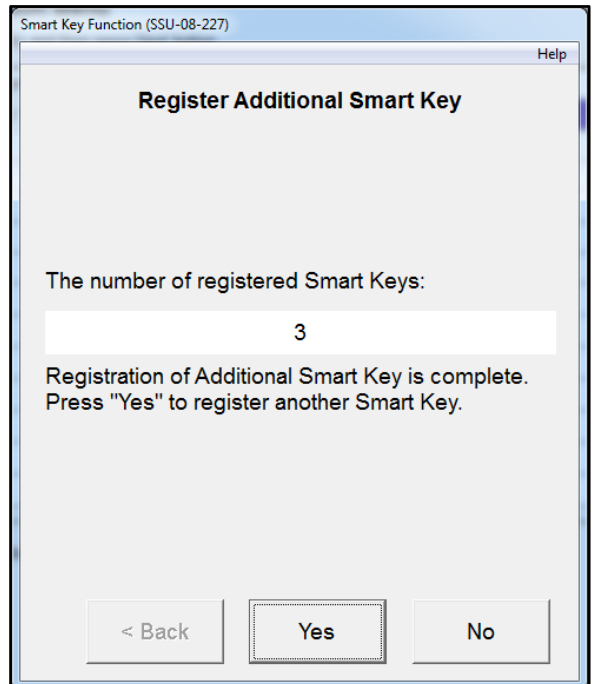
10. Perform the steps on the screen within 120 seconds.



11. This screen will show you how many keys you have registered. Press *No* unless you have a 4<sup>th</sup> or 5<sup>th</sup> key to register.

**NOTE**

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

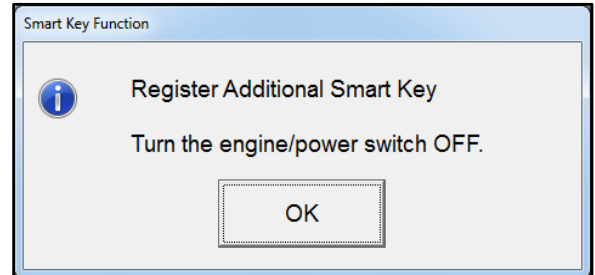


## Techstream Smart Key Programming

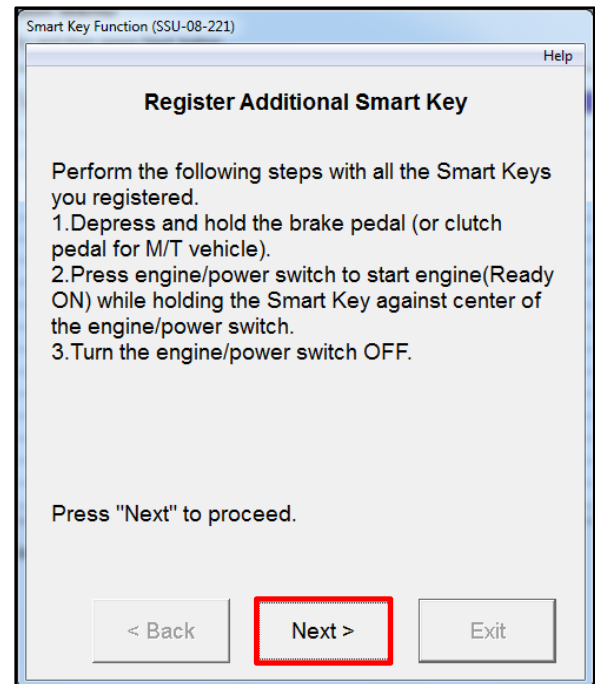
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### Procedure D – Register Additional Smart Key (Continued)

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



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





## Techstream Smart Key Programming

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### Procedure D – Register Additional Smart Key (Continued)

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

