TOYOTA

Immobilizer and Smart Key Reset

Service Category Vehicle Interior

Section Theft Deterrent/Keyless Entry   **Market** USA

Toyota Supports
ASE Certification

ASE CERTIFIED

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
1998 – 2016	4Runner, Avalon, Avalon HV, Camry, Camry HV, Corolla, Corolla BR-Prod, FJ Cruiser, Highlander, Highlander HV, Land Cruiser, MR2 Spyder, Matrix, Prius, Prius C, Prius PHV, Prius V, RAV4, RAV4 EV, Sequoia, Sienna, Solara, Tacoma, Tundra, Venza, Yaris	

REVISION NOTICE

July 23, 2015 Rev2:

- **The applicability has been updated to include 2016 applicable model year vehicles.**

- **The Preparation section has been added.**

July 25, 2014 Rev1:

- **Sections 1, 2, and 3 have been updated.**

Any previous printed versions of this bulletin should be discarded.

SUPERSESSION NOTICE

The information contained in this bulletin supersedes SB No. SS003-01.

- **Applicability has been updated to include 1998 – 2015 applicable model year vehicles.**

Service Bulletin No. SS003-01 is Obsolete and any printed versions should be discarded. Be sure to review the entire content of this bulletin before proceeding.

Immobilizer and Smart Key Reset

Introduction

The Immobilizer and Smart Key Reset is a feature that allows the registration of new keys when all master keys are lost. Once the system is reset, all previously registered keys will be erased. Follow the procedures in this bulletin to reset a vehicle Immobilizer or Smart Key system.

> **NOTE**
>
> **There are new security provisions required to obtain a Reset Pass-Code. It is critical that the instructions for this new process are reviewed BEFORE attempting to get a Pass-Code in the new system.**

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	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	

* Essential SST.

> **NOTE**
>
> - **Only ONE of the Techstream units listed above is required.**
>
> - **Software version 10.10.018 or later is required.**
>
> - **Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.**

Immobilizer and Smart Key Reset

Service Bulletin Overview

1. Review the vehicle application chart in the Technical Information System (TIS) to verify the vehicle is capable of being reset.

   Refer to the *Toyota / Scion Vehicle Support* chart located on TIS, under *Diagnostics – Immobilizer Reset – Reference Documents.*

2. Review the new security authorization process and choose the option that best supports your dealer situation.

3. Follow the Techstream and TIS screenshots to obtain the Pass-Code needed to open registration for Immobilizer and Smart Key programming.

> **NOTE**
>
> **Some early ECM based Immobilizers cannot be reset using Techstream. For these vehicles, do the following:**
>
> - **Identify the vehicle using the *Toyota / Scion Vehicle Support* noted above.**
>
> - **Refer to the most recent PANT bulletin for instructions.**

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Preparation for 2001 Model Year MR2 and RAV4

Before beginning the Key Code Reset function on 2001 Model year MR2 and RAV4 vehicles, it is necessary to short terminals TC to E1 at the ECM connector, using SST No. 09843–18020.

With ECU connectors in place, back–probe and short terminals TC to E1 (pin 17 to pin 5).

Figure 1. ECM TERMINALS ON '01 MR2 & RAV4
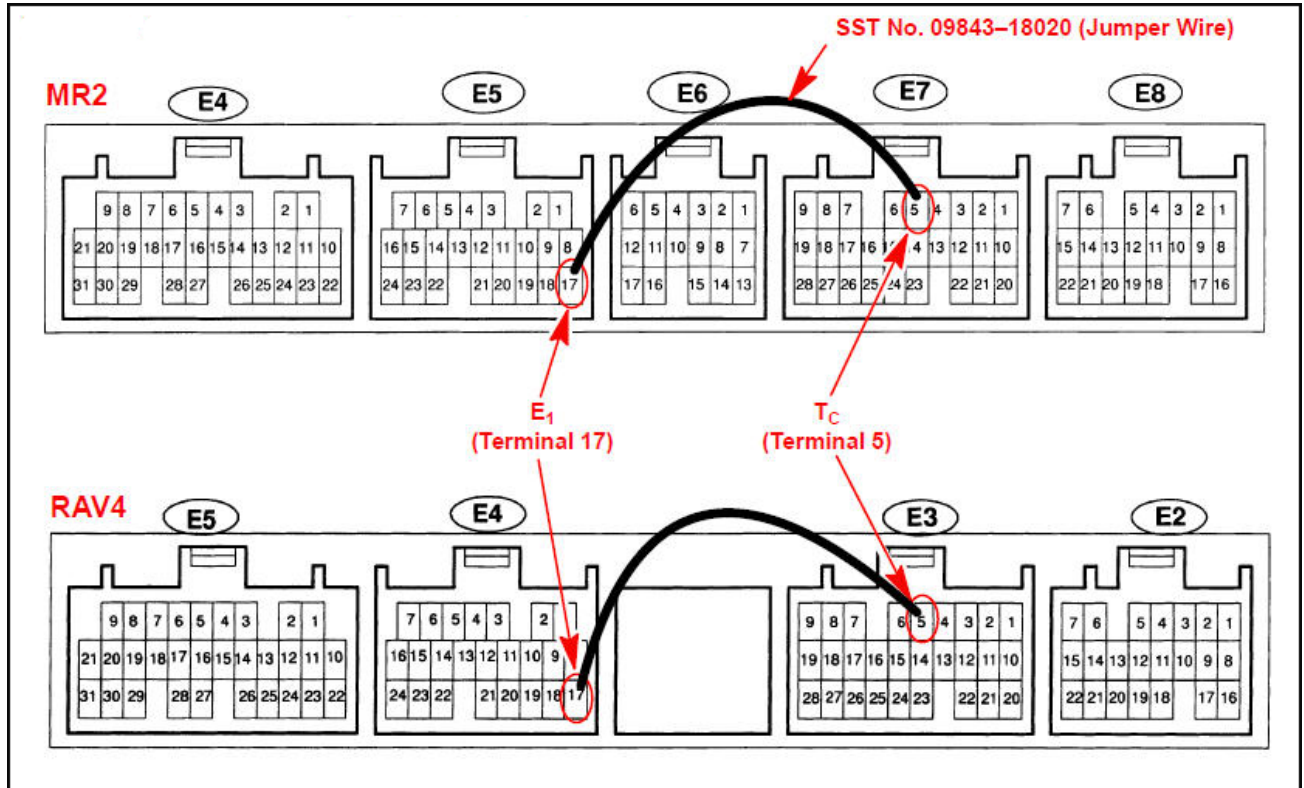
> **NOTE**
> - **With the key ON and the engine OFF, the SRS, Cruise and ABS lights will flash on the instrument panel when terminals TC to E1 are shorted together correctly.**
> - **Leave the SST No. 09843–18020 in place for the entire Key Code Reset procedure.**

Immobilizer and Smart Key Reset

Section 1: Security Authorization for the Reset Pass-Code

An improved security measure has been implemented in TIS that requires a secondary approval by dealer management each time an Immobilizer or Smart Key Reset request is submitted. Please review the following flow chart and become familiar with the options outlined prior to attempting a vehicle reset.

Figure 2. Immobilizer Reset Process
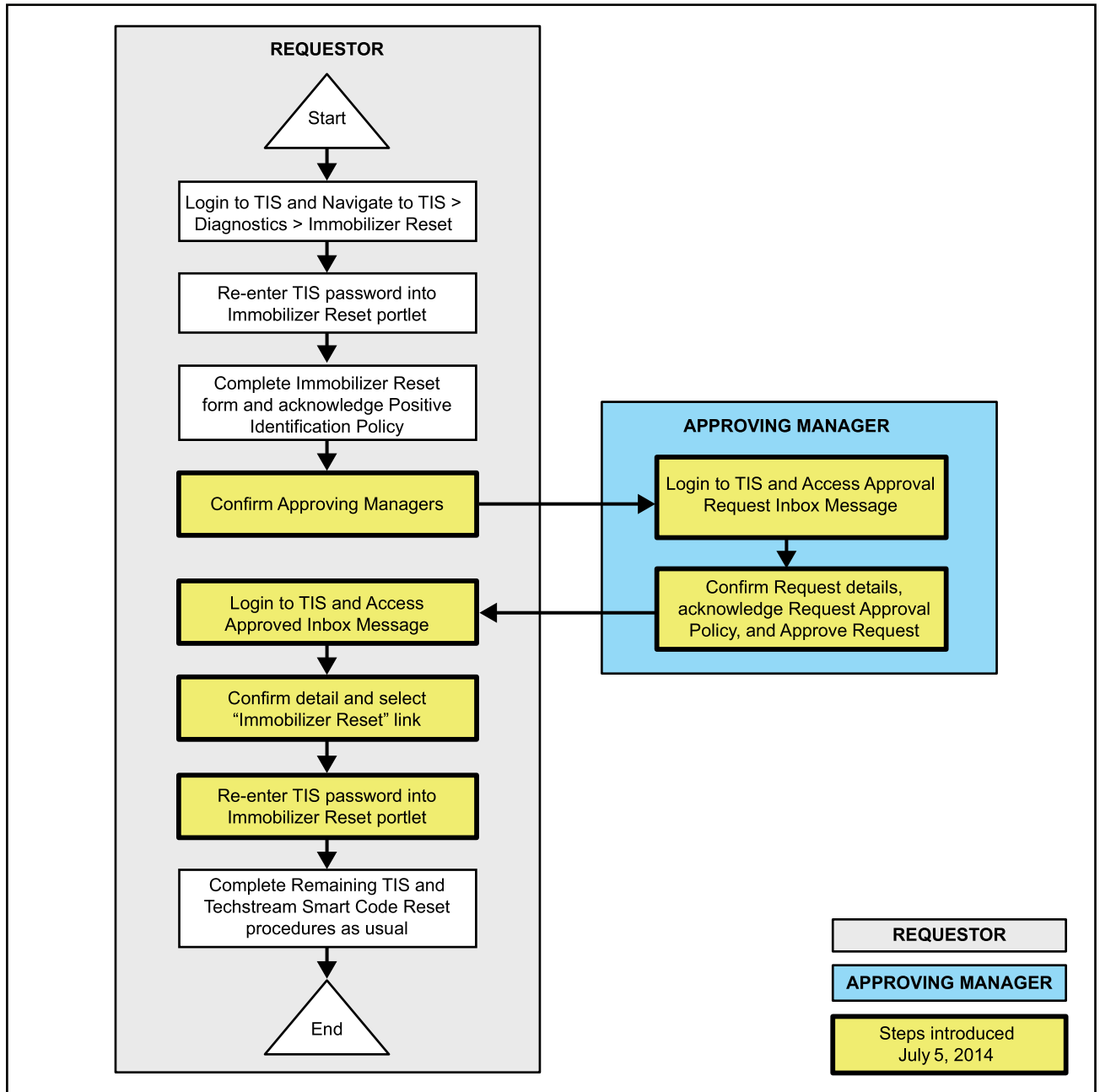
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Immobilizer and Smart Key Reset

Section 1: Security Authorization for the Reset Pass-Code (Continued)

Key Points:

- The Reset request can be submitted from the Techstream in the vehicle, or on TIS before the vehicle is available.

- A single management approval can be used multiple times for the same VIN as needed until the vehicle repair is completed.

- Each Reset attempt for the same VIN will generate a new Seed Number and a unique Pass-Code.

- The request and approval hand-off between technician and management is done on the TIS home page inbox accessed at each individual's location (Techstream, office, etc.).

Main Steps:

1. Obtain Authorization

    A. Technician Reset Approval Request

    B. Manager Access TIS In-Box Message and Approve

2. Perform Reset with Techstream

    A. Access Approval In-Box Message

    B. Perform Reset at Vehicle

Variations:

1. Pre-approval before vehicle is accessed (as per above Main Steps)

2. Request and receive approval from Techstream after entering the reset utility

3. Repeated reset attempts with Techstream by accessing the single approval file

Approving Managers:

Once the Pass-Code Request form has been completed an approval request will be sent to all approving managers. Dealership personnel with the following job titles in "Staffmaster" are granted Pass-Code approval capability.

Dealer Principal, General Manager, Service Manager, Service Director, Service/Parts Director, Parts Manager, Parts Director, Customer Relations Manager, Customer Satisfaction Manager, Shop Foreman, Diagnostic Specialist, Team Leader. Each dealer must have at least 2 enrolled managers in order to access any Pass-Codes.

Immobilizer and Smart Key Reset

Section 1: Security Authorization for the Reset Pass-Code (Continued)

> **NOTE**
> **Once a Reset is completed, it may be necessary to enter an "Immobilizer Key Registration" or a "Smart Key Code Registration" utility to program the new keys. Early Immobilizer systems may be ready to accept keys immediately after the Reset if the security light flashes a 2-digit code (such as 21 or 22). Refer to the applicable Repair Manual for details.**

Please review the Techstream and TIS screenshots in this bulletin to become familiar with the new management authorization process flow.

Section 2: Reset Approval Request (TIS Pre-Approval)

   1. Open TIS and enter the *Diagnostics* and *Immobilizer Reset* tabs. Login using your password.

   Figure 3.

Immobilizer and Smart Key Reset

Section 2: Reset Approval Request (TIS Pre-Approval) (Continued)

2. Enter the information requested, check all 4 boxes below *Positive Identification Policy*, then click *Next*.

Figure 4.

3. A minimum of two managers are required to be selected. Once two or more managers are selected, click *Submit* to continue. Each request is required to be approved by one manager. Once manager approval is received, continue to Section 5, *"Receipt of Pass-Code."*

Figure 5.

Immobilizer and Smart Key Reset

Section 3: Techstream Reset Utility (With Request)

1. Connect Techstream to the vehicle.

   Figure 6.
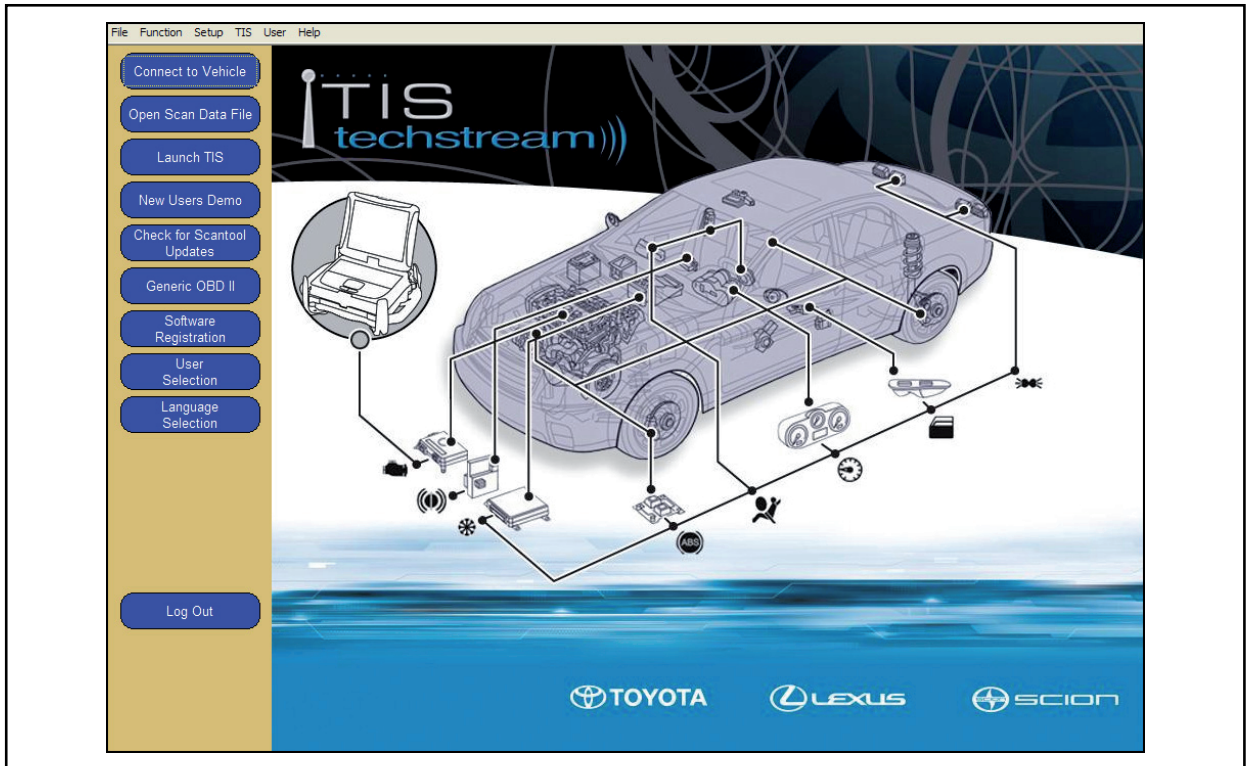
Immobilizer and Smart Key Reset

Section 3: Techstream Reset Utility (With Request) (Continued)

2. Choose the appropriate vehicle model and year if the ignition cannot be turned on and the information does not automatically populate.

   Figure 7.
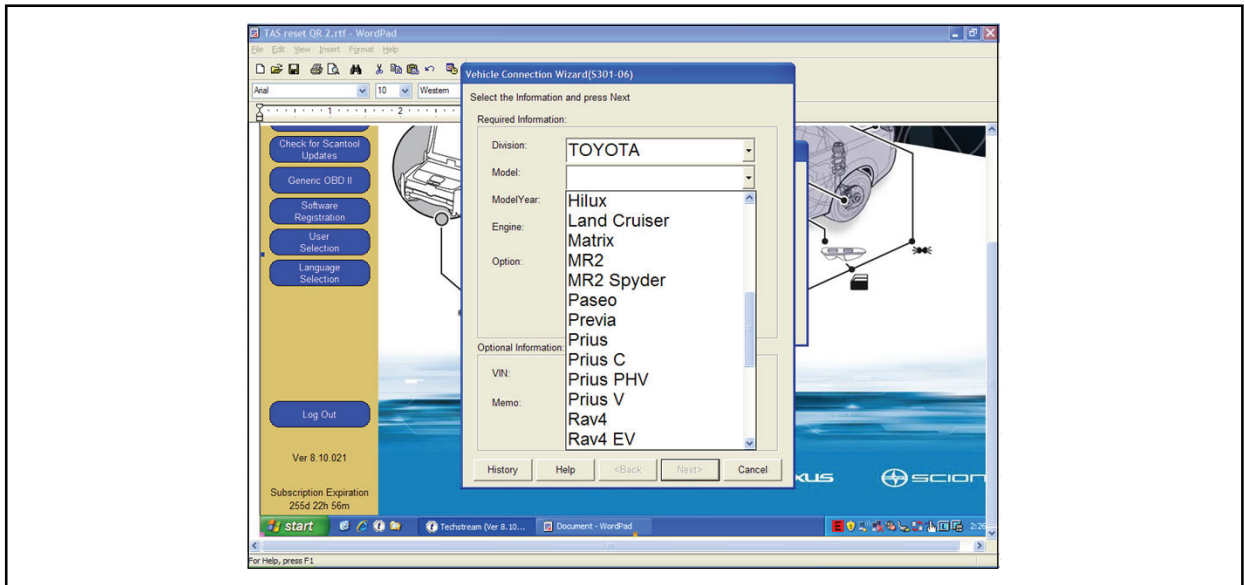
3. Choose the Immobilizer or Smart Key system as needed.

   Figure 8.
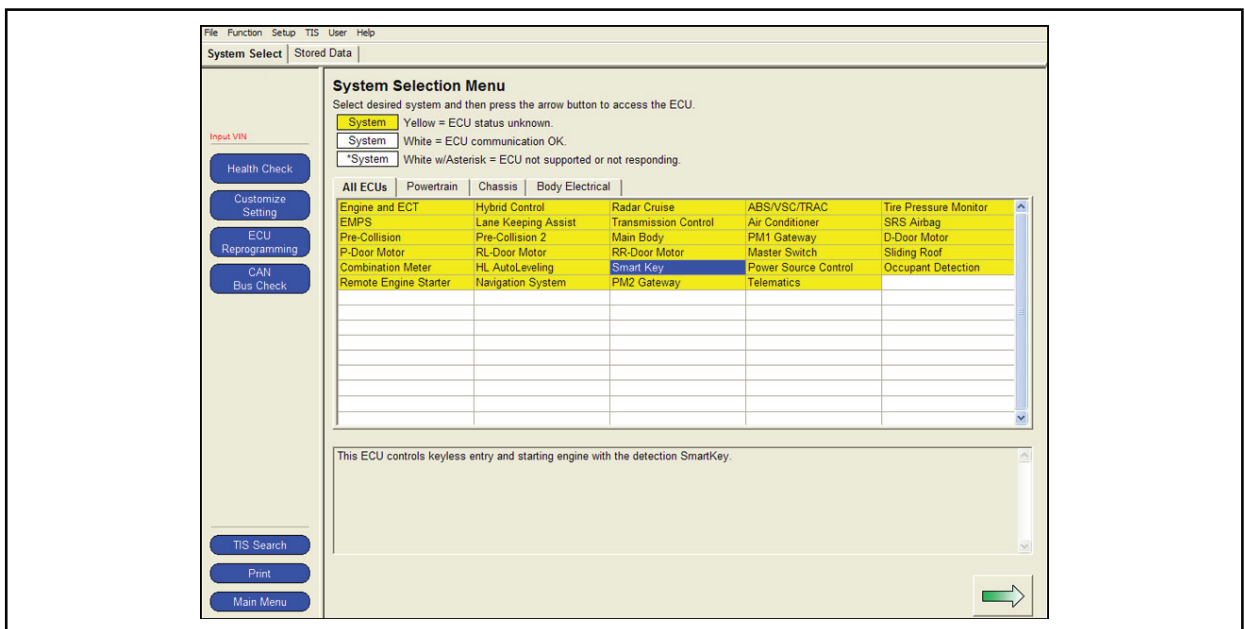
Immobilizer and Smart Key Reset

Section 3: Techstream Reset Utility (With Request) (Continued)

4. Choose the Immobilizer or Smart Code Reset utility.

Figure 9.
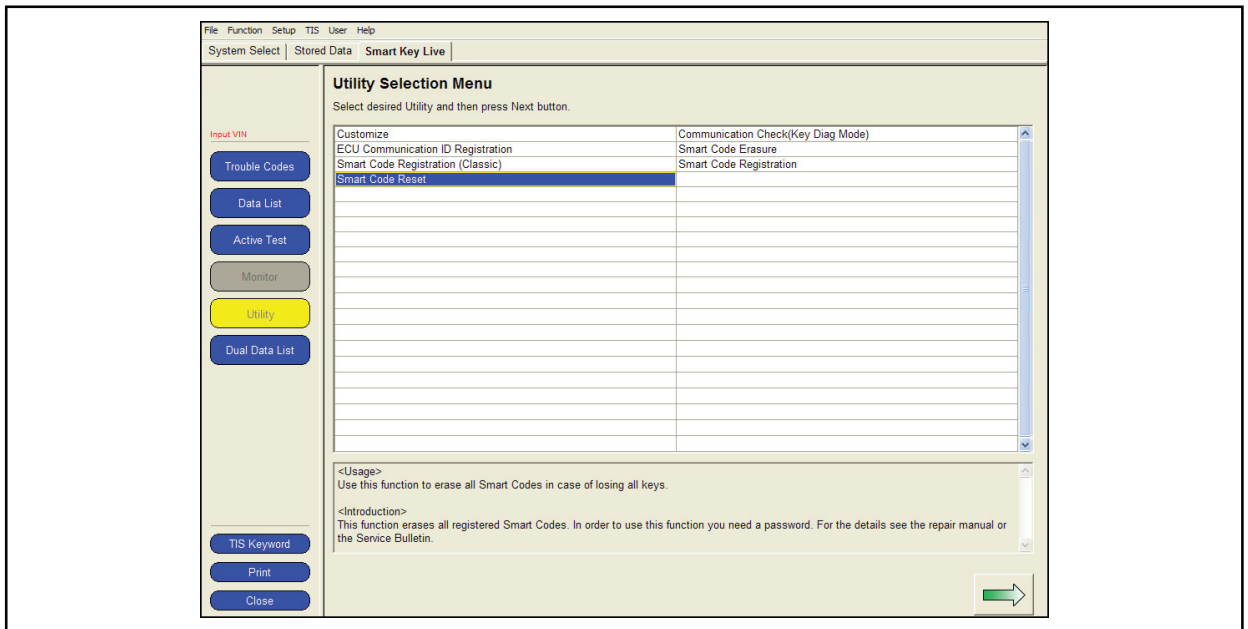
5. Enter the VIN if prompted.

Figure 10.
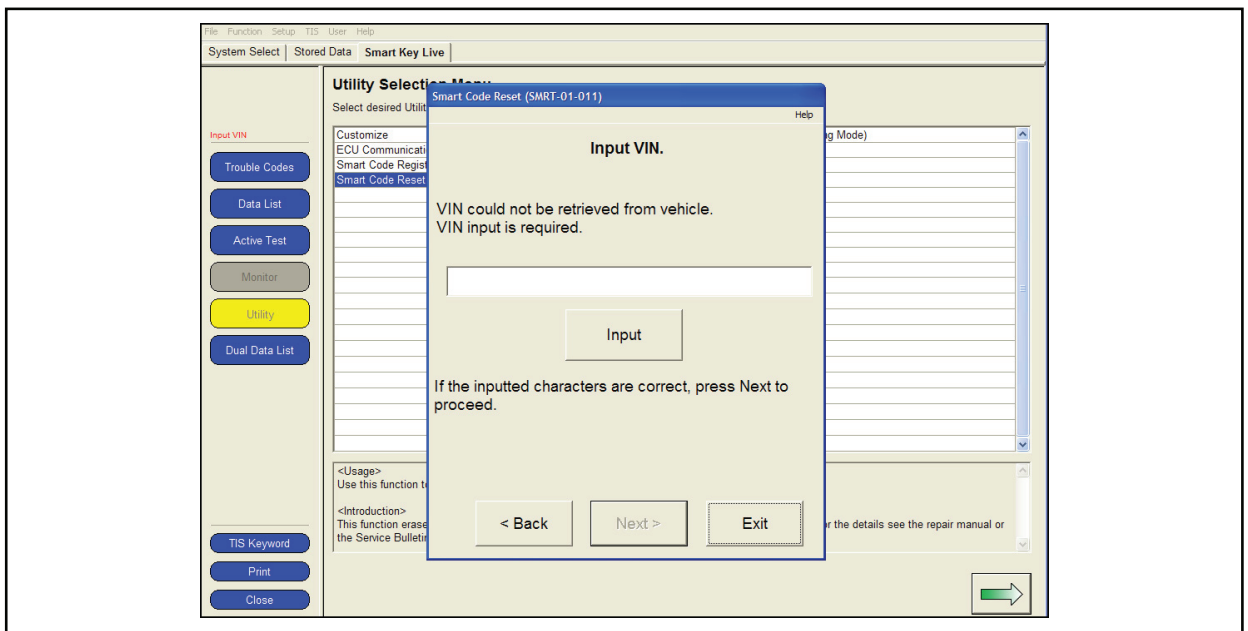
Immobilizer and Smart Key Reset

Section 3: Techstream Reset Utility (With Request) (Continued)

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

    Figure 11.
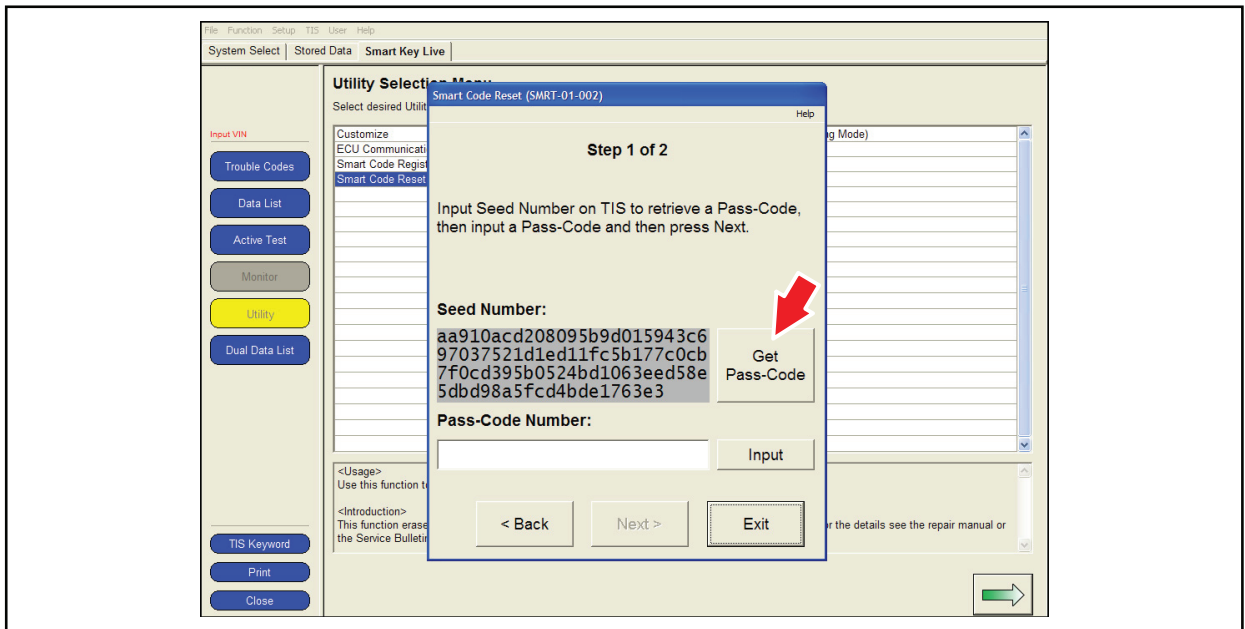
7. Click *Send* to connect to TIS.

    Figure 12.
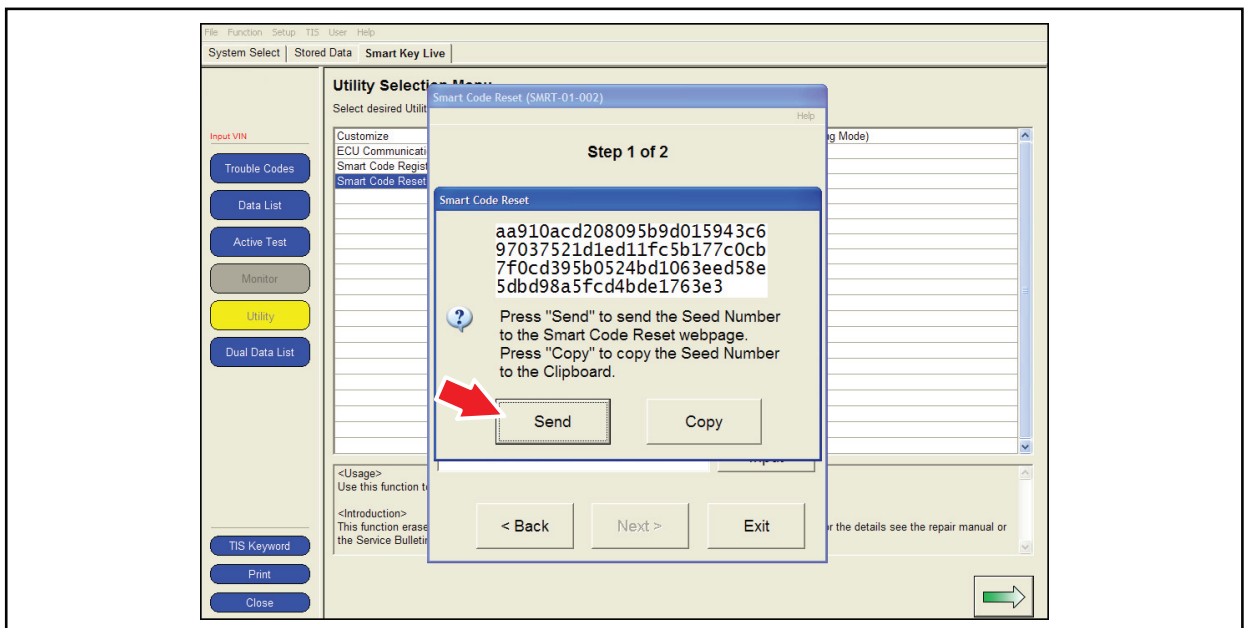
Immobilizer and Smart Key Reset

Section 3: Techstream Reset Utility (With Request) (Continued)

> **NOTE**
> - If there is already a management approval file for this VIN, DO NOT follow the next 3 steps to resubmit a request. Open the approval file in your TIS inbox and enter the most recent Seed Number to get the Pass-Code (as outlined in Section 5, *"Receipt of Pass-Code"*). Then go to Section 6, *"Techstream Reset Utility (Reset Initiated)."*
>
> - For repeated Reset attempts after the approval is completed, follow Section 3, *"Techstream Reset Utility (With Request),"* and Section 6, *"Techstream Reset Utility (Reset Initiated),"* using the same management approval file.

8. When the TIS window opens, enter your password to login.

Figure 13.
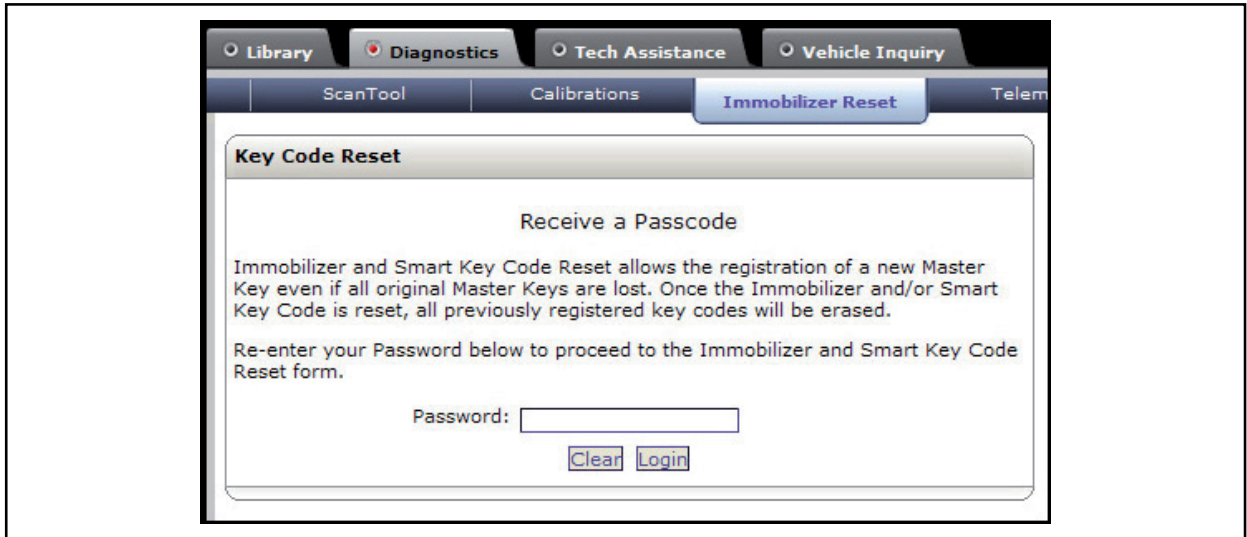
Immobilizer and Smart Key Reset

Section 3: Techstream Reset Utility (With Request) (Continued)

9. Fill in the required information and select *Next*.

Figure 14.

10. A minimum of two managers are required to be selected. Once two or more managers are selected, click *Submit* to continue. Each request is required to be approved by one manager. Once manager approval is received, continue to Section 5, *"Receipt of Pass-Code."*

Figure 15.

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Section 4: Manager Approval (TIS)

1. Once the request has been submitted, one of the authorized dealer managers will locate the technician's request in their TIS home page inbox.

   The manager clicks the title to open the Request.

   Figure 16.

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Section 4: Manager Approval (TIS) (Continued)

2. The manager checks the 3 boxes under *Request Approval Policy*, then selects *Approve* to send the approval to the technician.

Figure 17.

Immobilizer and Smart Key Reset

Section 5: Receipt of Pass-Code (TIS)

1. Once approved by management, the technician opens his TIS inbox and locates the Reset request. The technician clicks the title to open the Approval.
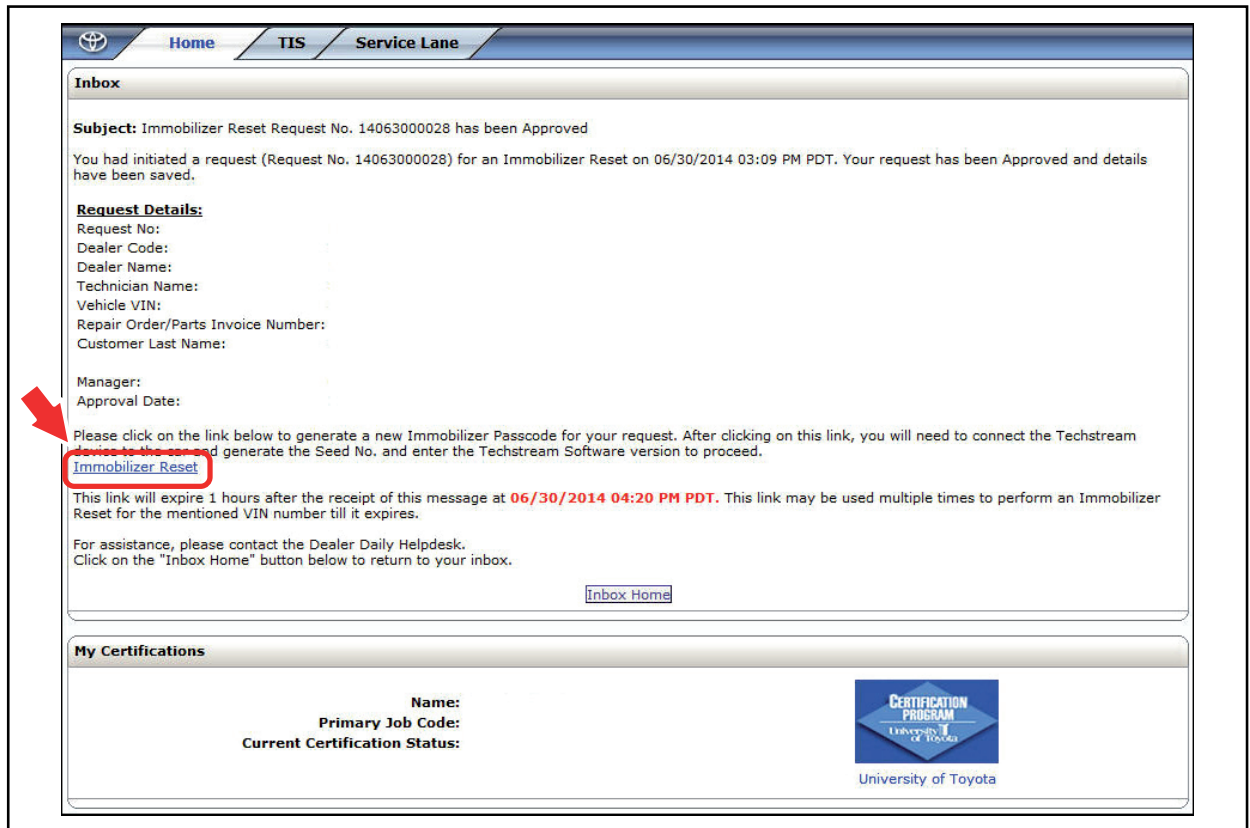
Figure 18.
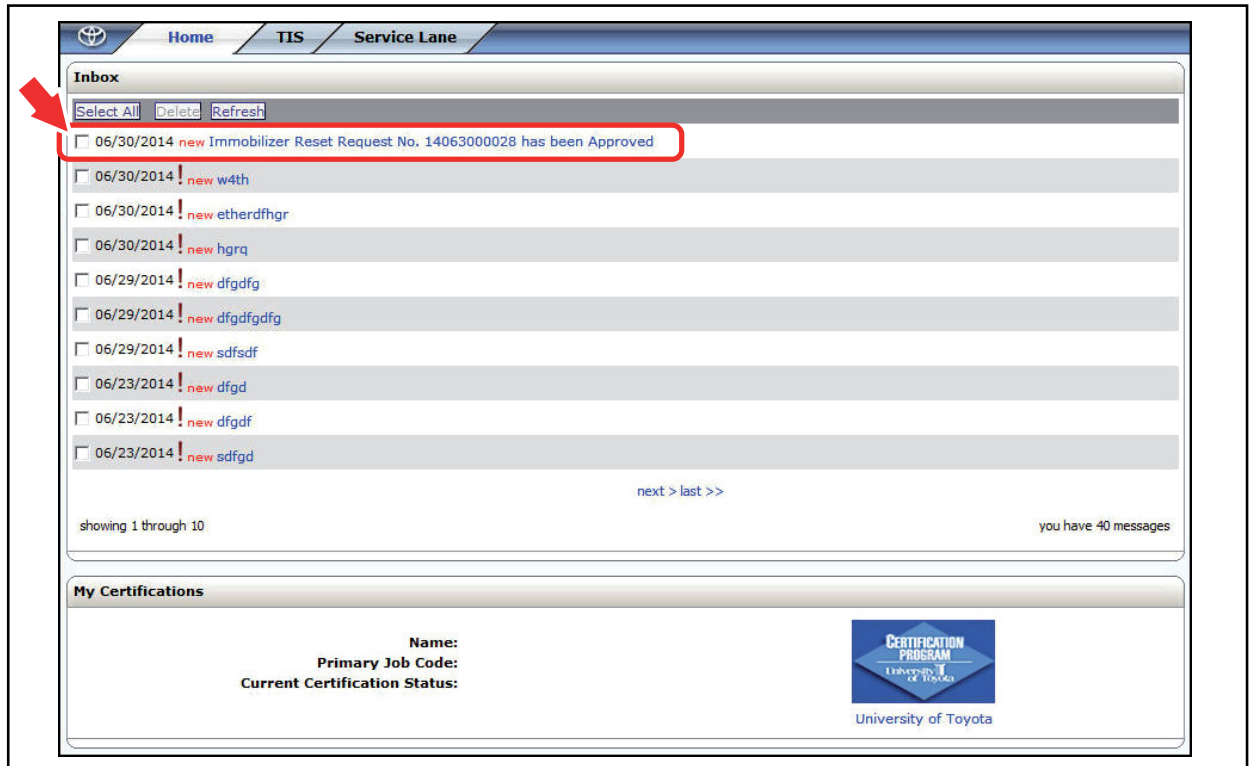
NOTE

- **It is recommended to retrieve the Pass-Code from the Techstream connected to the vehicle as the Seed Number and Pass-Code work together.**

- **Once approved by management, multiple resets can be performed for a single VIN. Each attempt will create a new Seed Number and resultant Pass-Code.**

Immobilizer and Smart Key Reset

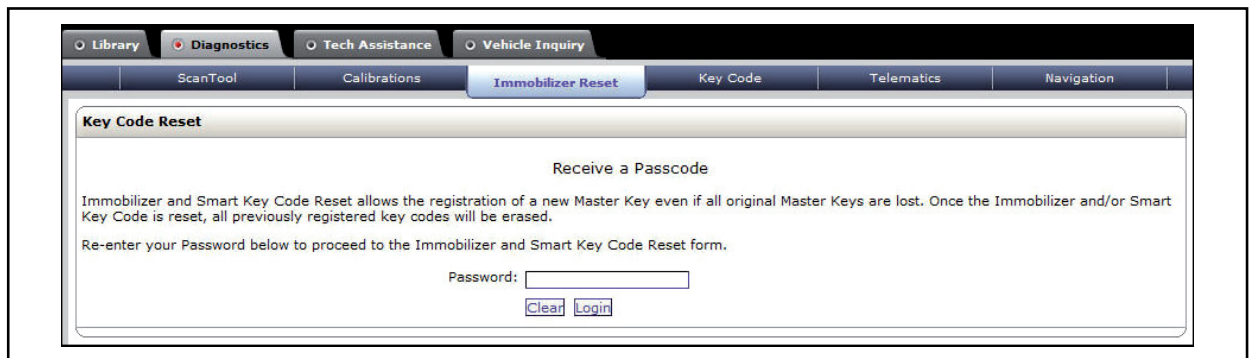**Section 5: Receipt of Pass-Code (TIS) (Continued)**

2. Once opened, the technician clicks the *Immobilizer Reset* link to continue.

Figure 19.

3. At this point, it is necessary for the technician to re-enter their password to login again.

Figure 20.

Immobilizer and Smart Key Reset

Section 5: Receipt of Pass-Code (TIS) (Continued)

4. The technician must enter the Techstream software version and paste in the Seed Number from Techstream, then click *Next*.

Figure 21.

Immobilizer and Smart Key Reset

Section 5: Receipt of Pass-Code (TIS) (Continued)

    5. The Pass-Code will then be provided as shown. Continue to Section 6, *"Techstream Reset Utility (Reset Initiated),"* for instructions on entering the Pass-Code to initiate the Reset.

Figure 22.
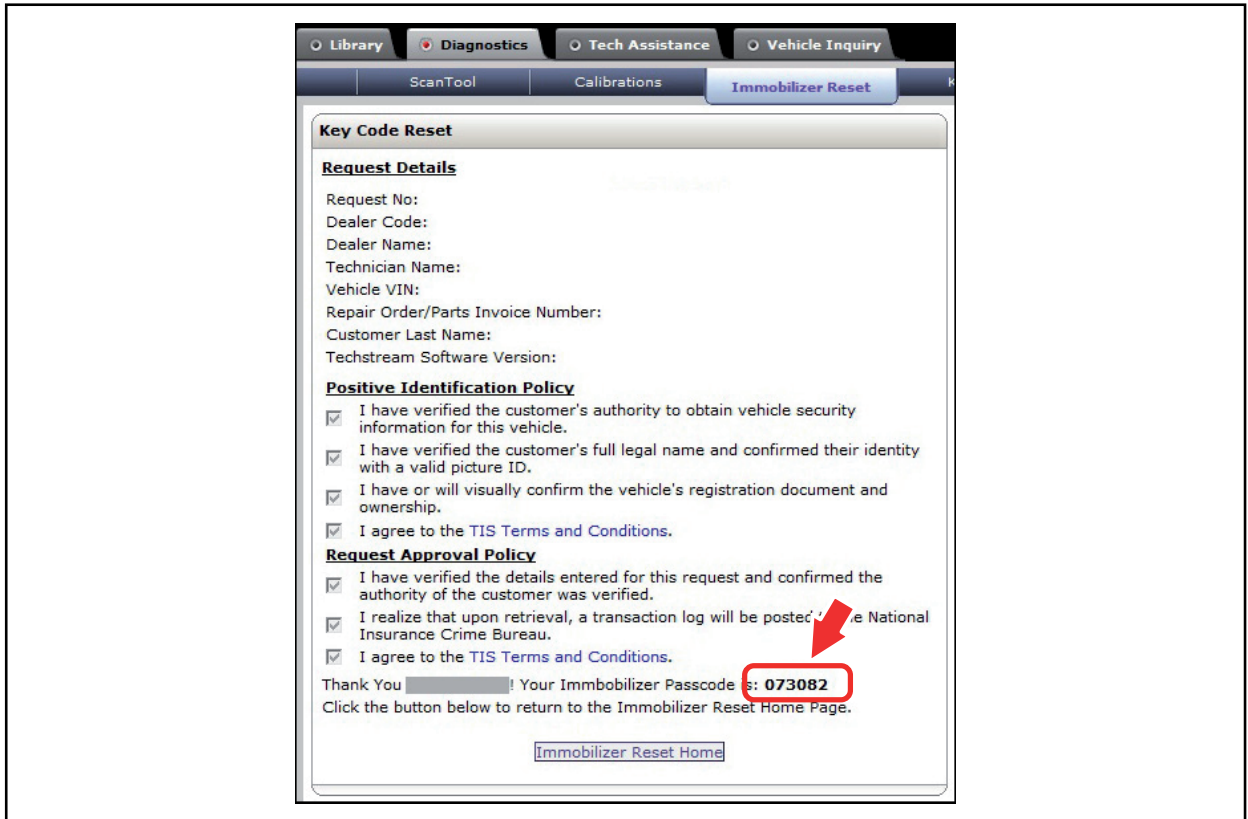
Immobilizer and Smart Key Reset

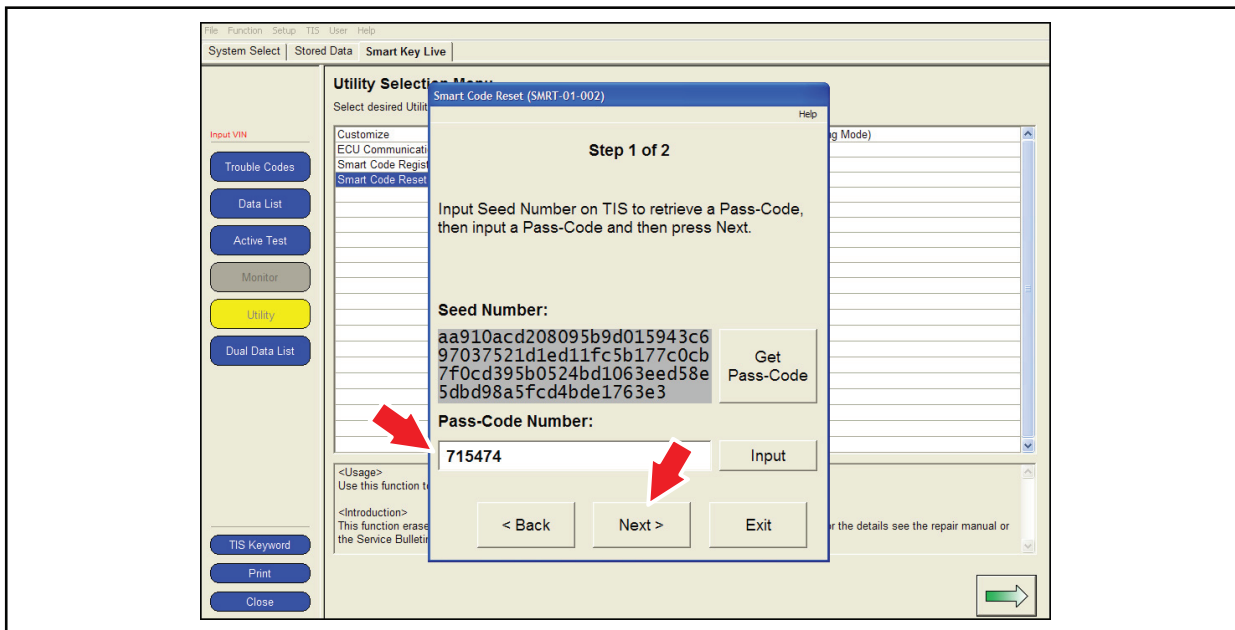**Section 6: Techstream Reset Utility (Reset Initiated)**

The Reset can be initiated once the management approval reply is available in the TIS home page inbox. With this approval file, multiple Seed Numbers can be used for as many attempts as needed to repair the vehicle.

> **NOTE**
>
> **If you have received the file from management in your TIS inbox that shows the approval status for the given VIN, do NOT resubmit for another approval for this vehicle. It will not be necessary. Continue to open the approval file and enter a new Seed Number to get the unique Pass-Code for each attempt.**

1. After retrieving the Pass-Code from the manager approval process in Section 4 (*"Manager Approval"*) and Section 5 (*"Receipt of Pass-Code"*), enter the Pass-Code in Techstream and click *Next*.

    Figure 23.

Immobilizer and Smart Key Reset

Section 6: Techstream Reset Utility (Reset Initiated) (Continued)

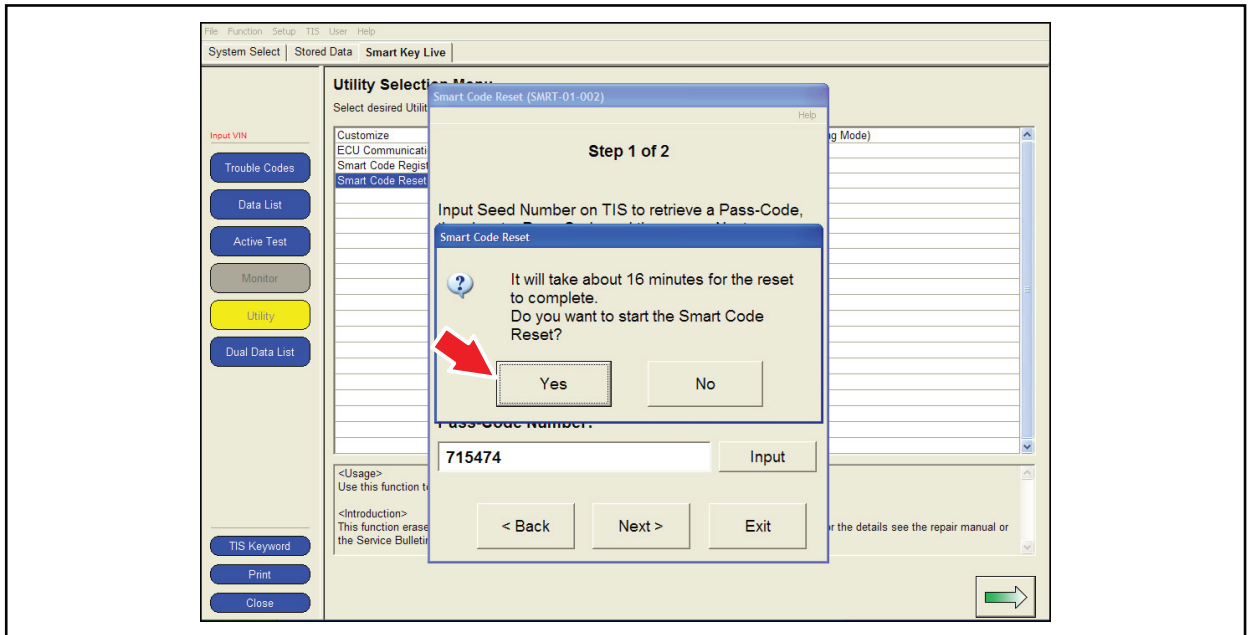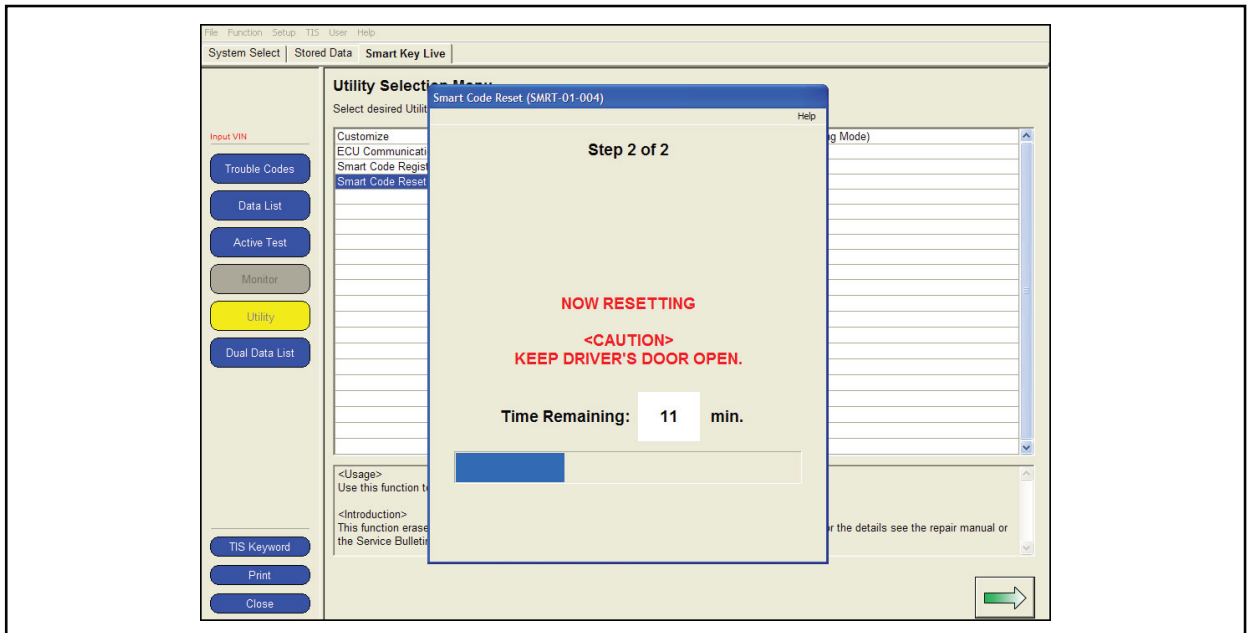2. Click *Yes* to start the process.
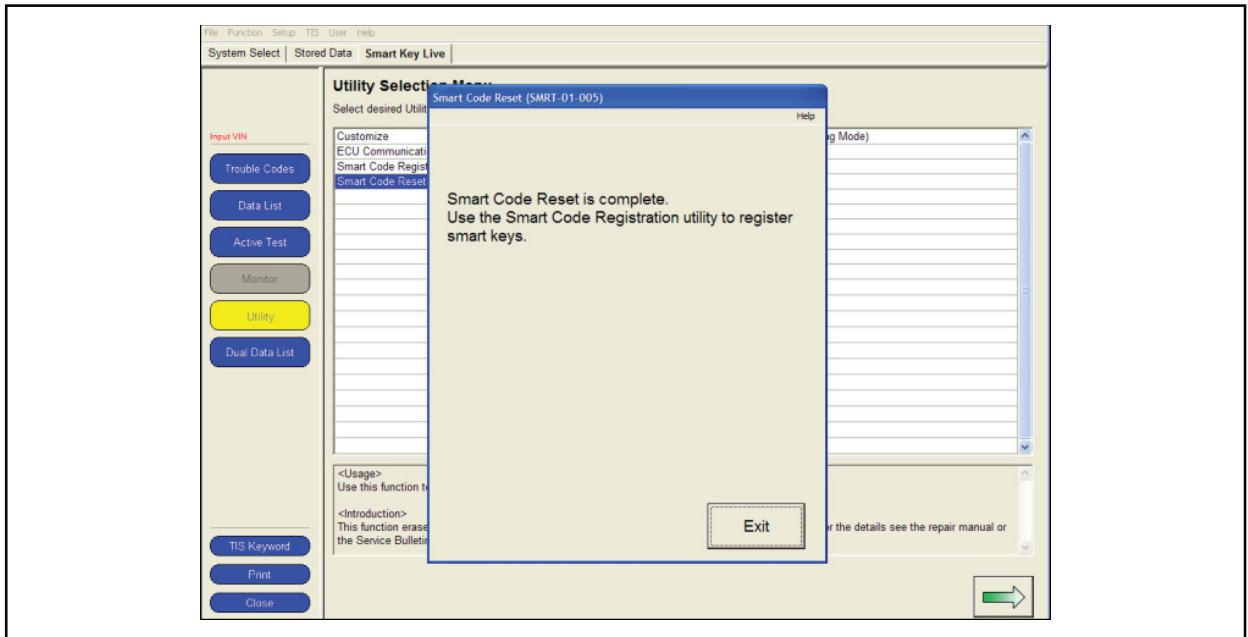
Figure 24.

Figure 25.

Immobilizer and Smart Key Reset

Section 6: Techstream Reset Utility (Reset Initiated) (Continued)

3. Once completed, it may be necessary to enter either the Immobilizer Key Registration or Smart Code Registration utility to program keys.

Figure 26.

NOTE

Some early Immobilizer systems go directly into programming mode. This can be confirmed by the security light blinking a 2-digit code. Refer to the applicable Repair Manual for details.