



**Technical Service
BULLETIN**

August 30, 2002

Title:

IMMOBILIZER KEY CODE RESET

Models:

**Applicable 4Runner, Camry, Highlander,
Land Cruiser, MR2 Spyder, RAV4, Sequoia,
& Solara**

REVISED

SS003-01

SPECIAL SERVICE TOOLS

TSB REVISION NOTICE:

- August 26, 2005: The model years for each model have been specifically defined in the "Applicable Vehicles" section. The "Required SSTs" section has been updated.
 - June 25, 2003: Preparation procedure on page 3 now applies to all model years of MR2 Spyder.
 - January 20, 2003: Updated terminals in Figure 1 on page 3.
- Previous versions of this TSB should be discarded.

Introduction Immobilizer Reset is a new feature that allows the registration of a new Master Key even if all original Master Keys are lost. Once the Immobilizer system is reset, all previously registered keys will be erased.

**Applicable
Vehicles**

MODEL YEAR	MODEL	ENGINE MODEL
2000 – 2005	MR2 Spyder*	1ZZ
2001 – 2002	4Runner	5VZ
2001 – 2004	Camry	1MZ-FE w/o 5-Speed AT, PZEV, 2AZ-FE
2001 – 2003	Highlander	2AZ
2001 – 2002	Land Cruiser	2UZ
2001 – 2003	RAV4*	1AZ
2001 – 2002	Sequoia	2UZ
2002 – 2003	Solara	2AZ

* Refer to special preparation procedure in this bulletin.

NOTE:

Refer to TIS (Technical Information System) for the most current applicable vehicle information.

**Parts
Information**




PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME
N/A	Model Specific	Replacement Key (Master or Sub)

**Warranty
Information**

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



Required SSTs

ITEM NO.	SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QTY	DRW**
1	Diagnostic Check Wire (or equivalent) 	09843-18020	1	-
2	Toyota Diagnostic Tester Kit* NOTE: <ul style="list-style-type: none"> All components from this kit/set are required 12 Megabyte Diagnostic Tester Program Card (P/N 01002593-005) with version 13.0a Software (or later) is required 	TOY220036	1	9
3	CAN Interface Module Kit* NOTE: <ul style="list-style-type: none"> All components from this kit/set are required 	01002744	1	9

* Essential SSTs.

** Refers to drawer number in SST Storage System.

NOTE:
Additional Diagnostic Tester Kits, CAN Interface Modules, Program Cards, or other SSTs may be ordered by calling SPX/OTC at 1-800-933-8335.

Function Description

The Immobilizer Reset function is a 5-step process:

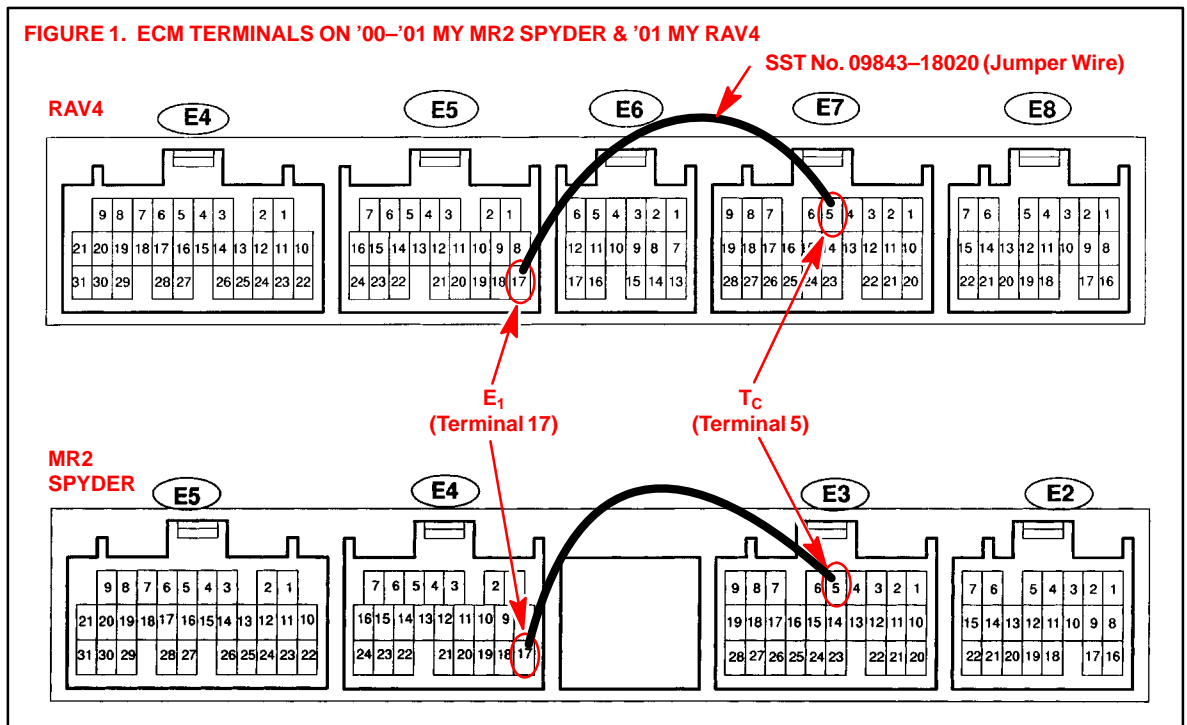
1. Using the Diagnostic Tester, retrieve a “Seed Number” through the **OBD/MOBD Immobilizer** function.
 - A “Seed Number” is a unique number provided by the Diagnostic Tester and validated by TIS in order to return a Passcode.
2. Using TIS, select **Immobilizer Reset**, and complete the request form to retrieve a “Passcode Number.”
 - A “Passcode Number” is a unique number required by the Diagnostic Tester to reset the ECU allowing it to accept a new Master Key.
3. Enter the “Passcode Number” received from TIS into the Diagnostic Tester.
4. Confirm successful Immobilizer reset and new Master Key registration.
5. Register any additional customer keys.

Preparation:
 '00 & '01 MY
 MR2 Spyder
 & '01 MY
 RAV4 Only

Before beginning the Key Code Reset function on 2000 and later model year MR2 Spyder and 2001 model year RAV4 vehicles, it is necessary to short terminals T_C to E₁ at the ECM connector, using SST No. 09843-18020. (Refer to Figure 1.)

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

FIGURE 1. ECM TERMINALS ON '00-'01 MY MR2 SPYDER & '01 MY RAV4



NOTE:

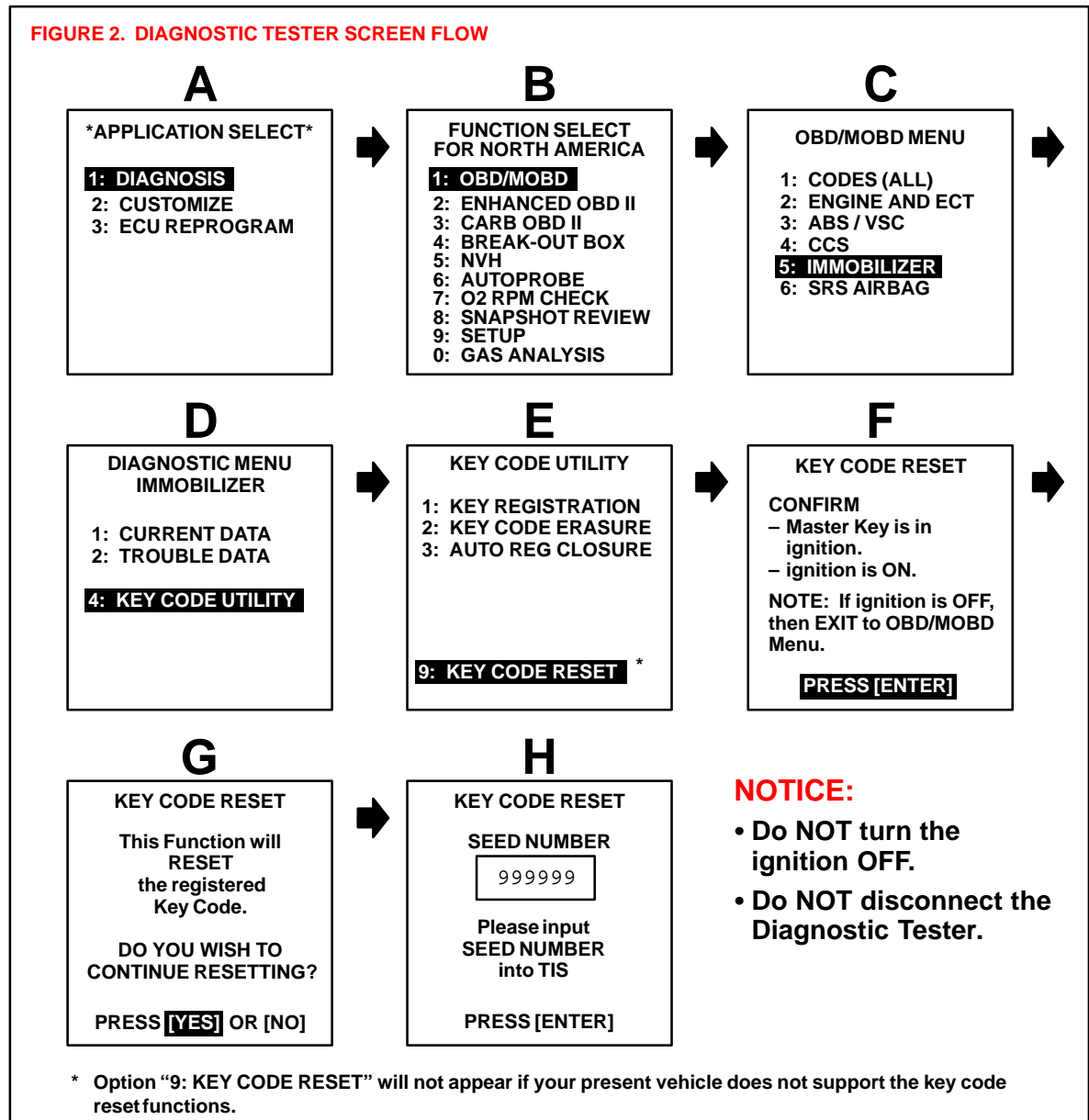
- With the key ON and the engine OFF, the SRS, Cruise and ABS lights will flash on the instrument panel when terminals T_C to E₁ are shorted together correctly.
- Leave the SST No. 09843-18020 in place for the entire Key Code Reset procedure.

Key Code Reset Procedure

NOTE:
Ensure that the Diagnostic Tester is equipped with the latest version of software (13.0a or later).

Connect the Diagnostic Tester to DLC3 and turn the ignition ON.

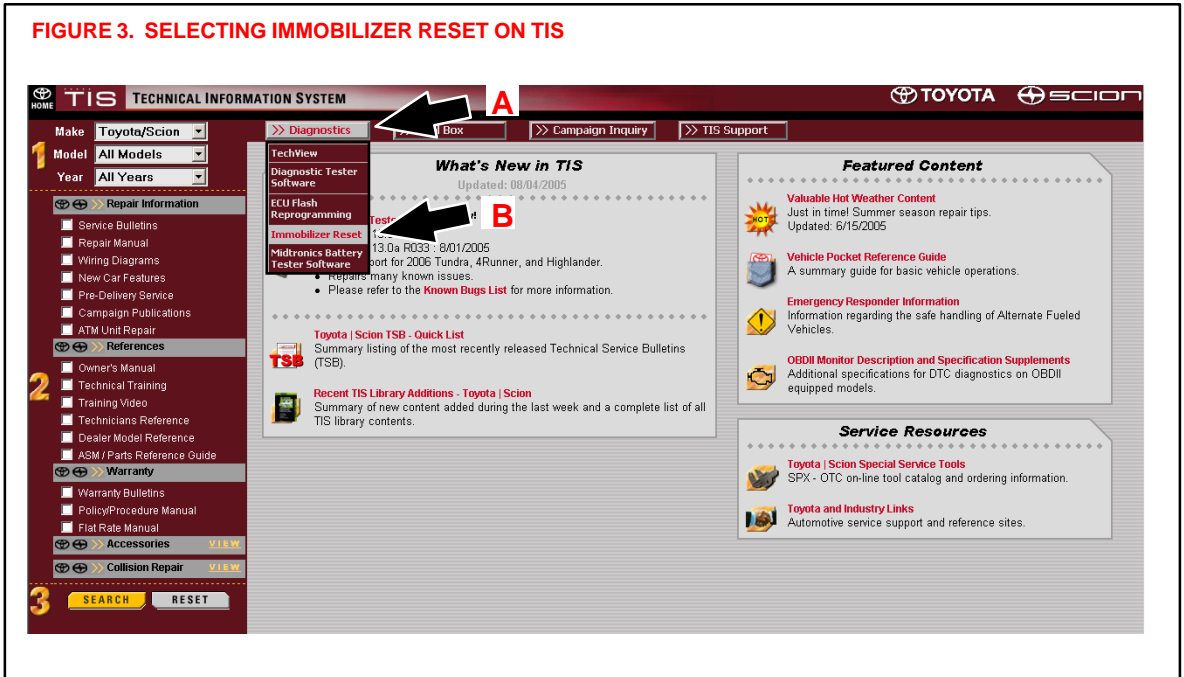
- Using the Diagnostic Tester, follow the screen flow in Figure 2 below to retrieve the "Seed Number." (**DO NOT DISCONNECT** the Diagnostic Tester from the vehicle during this process.)



Key Code Reset Procedure
(Continued)

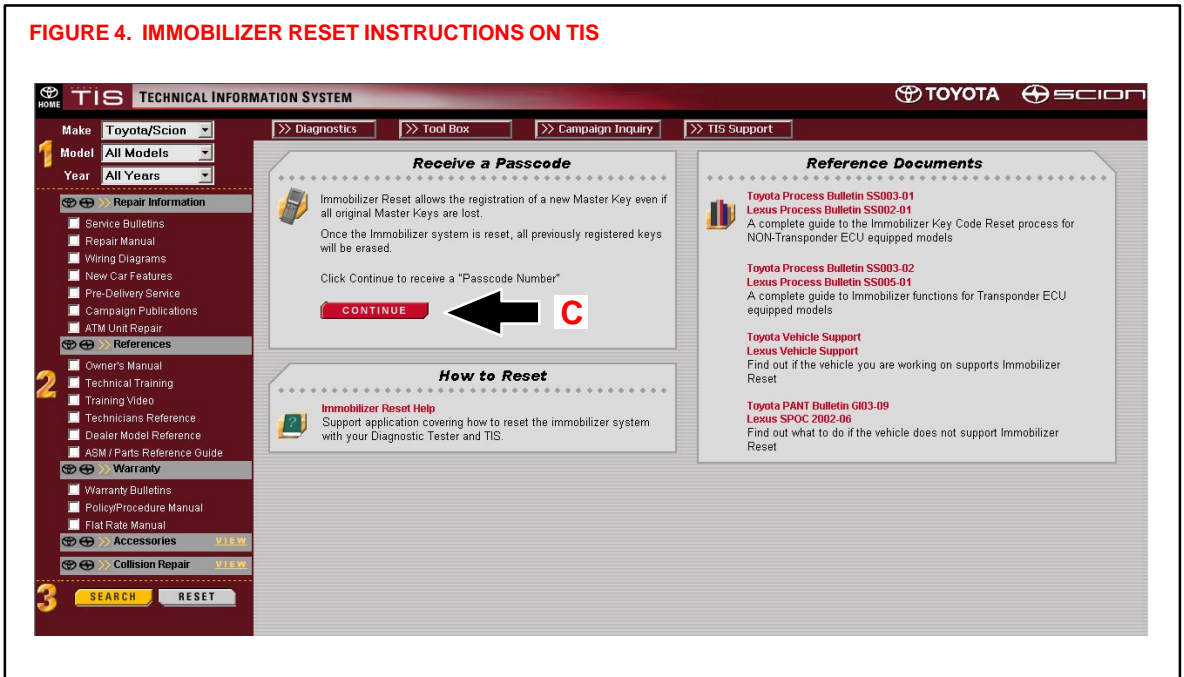
2. Using TIS, select **Immobilizer Reset**, and complete the request form to retrieve a “Passcode Number.”
 - A. Click on **Diagnostics**.
 - B. Click on **Immobilizer Reset**.

FIGURE 3. SELECTING IMMOBILIZER RESET ON TIS



- C. Read the instructions on the screen and click on **Continue**.
(See Figure 4 below.)

FIGURE 4. IMMOBILIZER RESET INSTRUCTIONS ON TIS

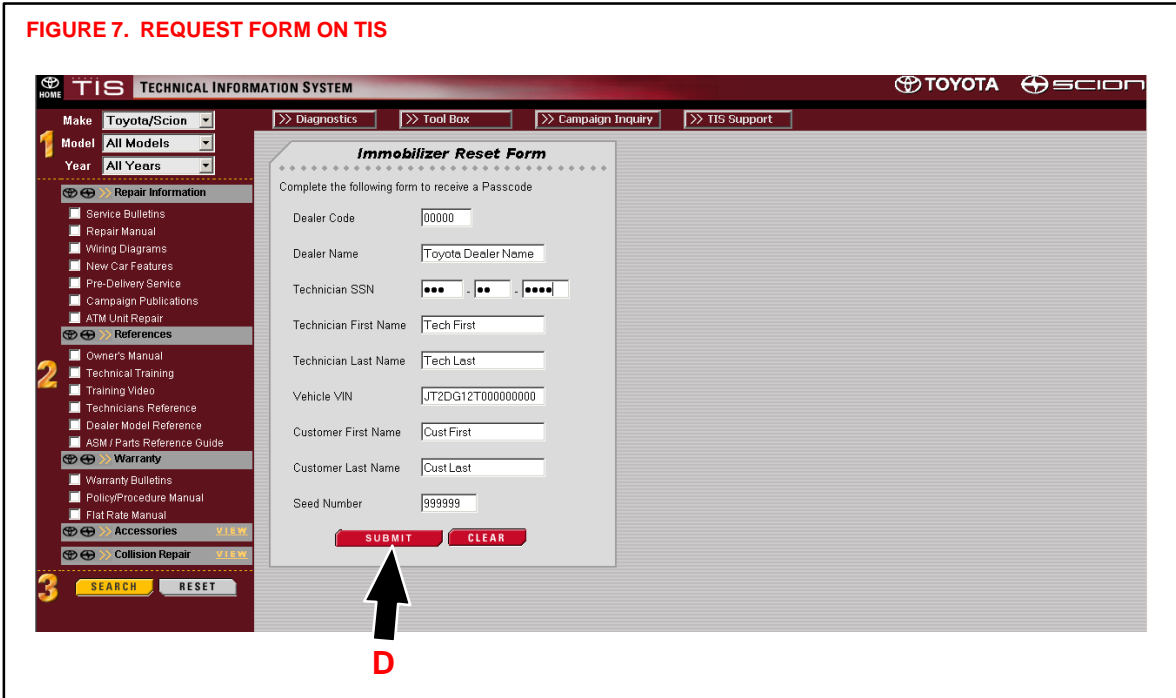


Key Code Reset Procedure
(Continued)

D. Complete the request form and enter the “Seed Number” from the Diagnostic Tester. Click on **Submit** (Figure 5).

NOTE:
All fields must be completed.

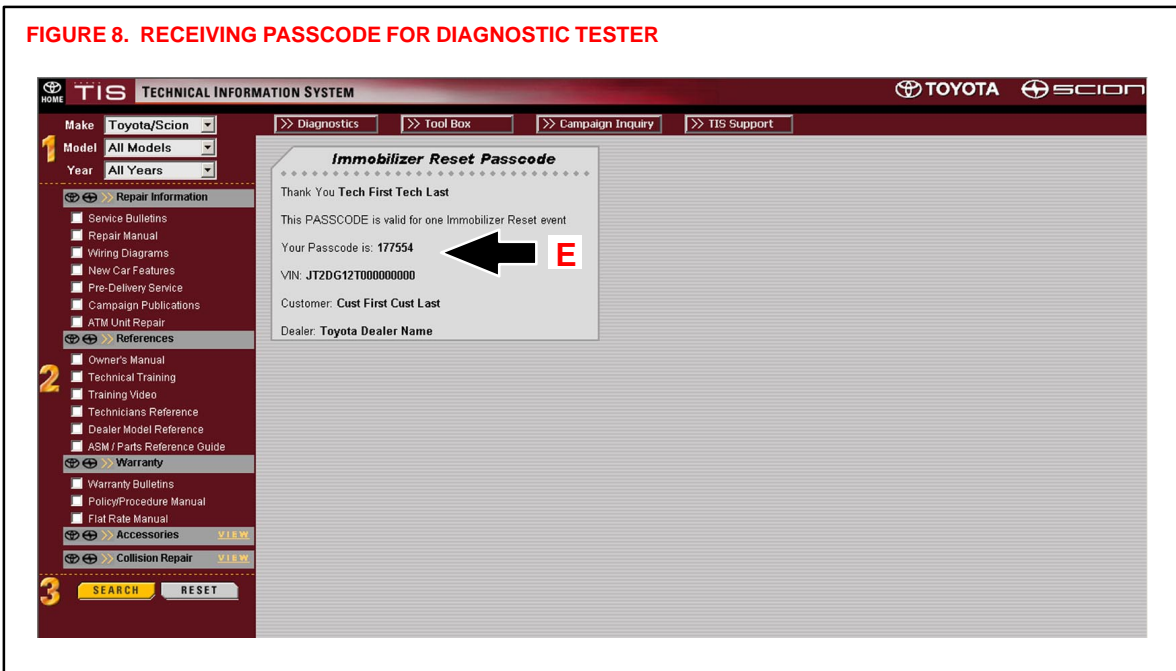
FIGURE 7. REQUEST FORM ON TIS



E. TIS will now return the Passcode that needs to be entered into the Diagnostic Tester.

NOTE:
The Passcode given by TIS is only valid for one Immobilizer Reset Event.

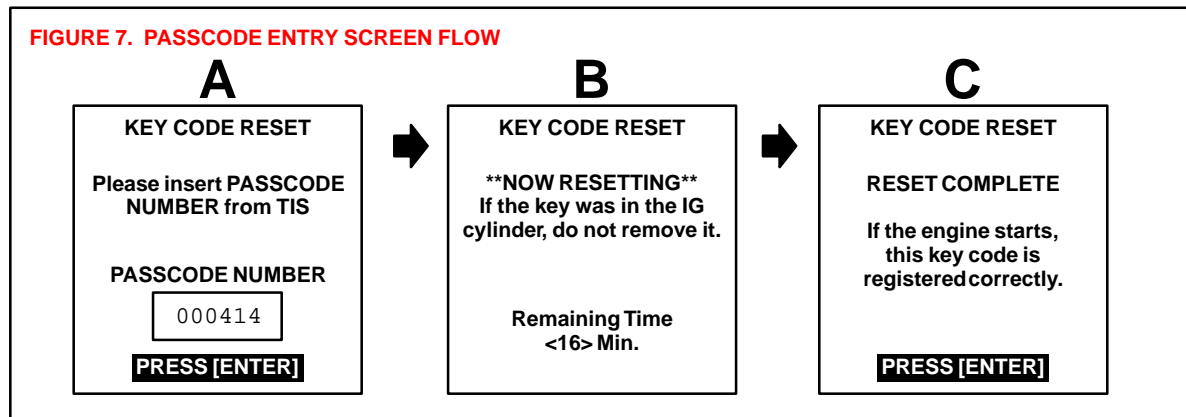
FIGURE 8. RECEIVING PASSCODE FOR DIAGNOSTIC TESTER



Key Code Reset Procedure
(Continued)

- Using the numbered keys (0–9) on the Diagnostic Tester, enter the “Passcode Number” received from TIS. Press **ENTER** to clear all registered key codes.

NOTE:
Key Code Reset takes approximately 16 minutes.



- Confirm successful Immobilizer reset and new Master Key registration by starting the vehicle.

NOTE:
If the vehicle starts, the new Master Key code is registered correctly.
If the vehicle does not start, perform the Immobilizer Reset function again.

- All previously registered key codes have been erased except the Master Key used during “Key Code Reset.”
Register any additional customer keys by using “Key Registration.”
Each key will start the engine if registered correctly.
 - Please refer to TSB No. SS001–99, “*Scantool Immobilizer Key Code Utility*,” for additional detail on this procedure.

