LEXUS

Technical Service Information Bulletin

June 24, 2004

Title:
REPAIR MANUAL SUPPLEMENT: SMART KEY REGISTRATION

Models:
'04 – '06 LS 430

TSIB REVISION NOTICE:
- **December 9, 2005: 2005 and 2006 model years have been added to Applicable Vehicles. Diagnostic Tester software version has been updated to 13.2a.**
- **Previous versions of this TSIB should be discarded.**

Introduction   The following procedure should be used to add an additional Smart Key (Immobilizer and Smart/Wireless functions) to the 2004 – 2006 model year LS 430.

Applicable Vehicles
- **2004 – 2006** model year **LS 430** vehicles.

Required SSTs

ITEM NO.	SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QTY	DRW**
1	**Lexus Diagnostic Tester Kit*** NOTE: • All components from this kit/set are required • 12 Megabyte Diagnostic Tester Program Card (P/N 01002593–005) with version 13.2a Software (or later) is required	LEX220036	1	8
2	**CAN Interface Module Kit*** NOTE: • All components from this kit/set are required	01002744	1	8

* 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.


Warranty Information

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

Registration Procedure

1. Make sure that the key is NEW (has never been registered to another vehicle) and verify that it is a Master Key (has a trunk button). Sub–keys will NOT have a trunk button and have NO Smart function.

2. Place the vehicle in an area that is free from radio frequency interference (i.e., away from any power lines, laser wheel alignment machines, etc.).

3. Turn off or remove from the vehicle interior any wireless communication devices (i.e., cell phones, text pagers, etc.) and all other non–factory electrical accessories.

4. Insert a **registered** Smart Key into the ignition.

5. Turn the ignition to the ON position, but do not start the engine.

6. Connect Diagnostic Tester to DLC3.

7. If the Diagnostic Tester backlighting is ON, use the screen flow below to turn it "OFF" to prevent possible signal interference. If backlighting is already OFF, proceed to step 8.
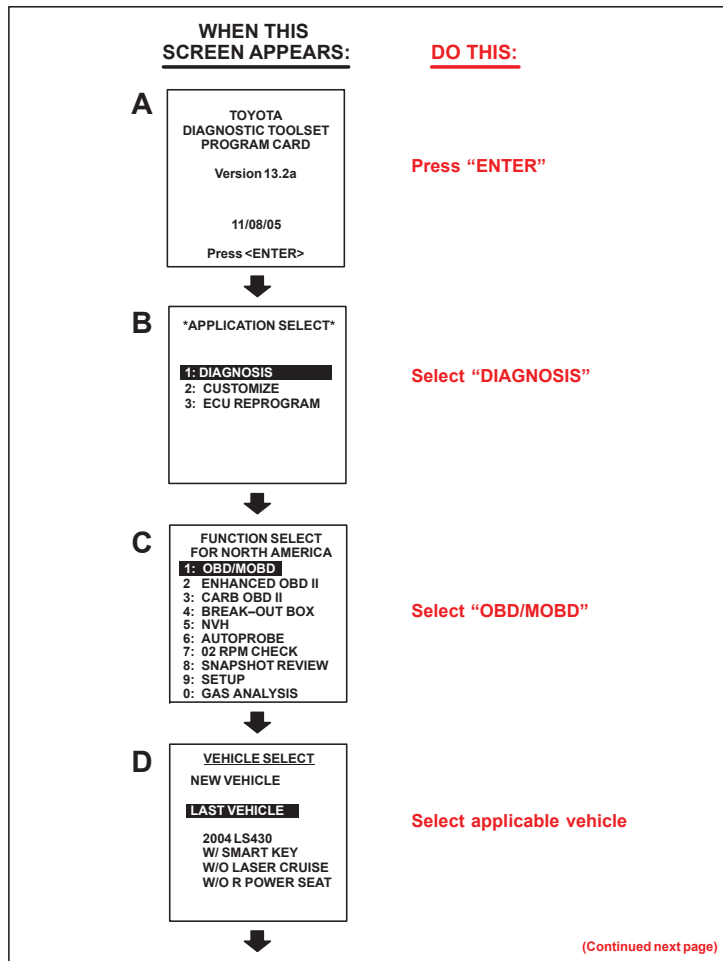
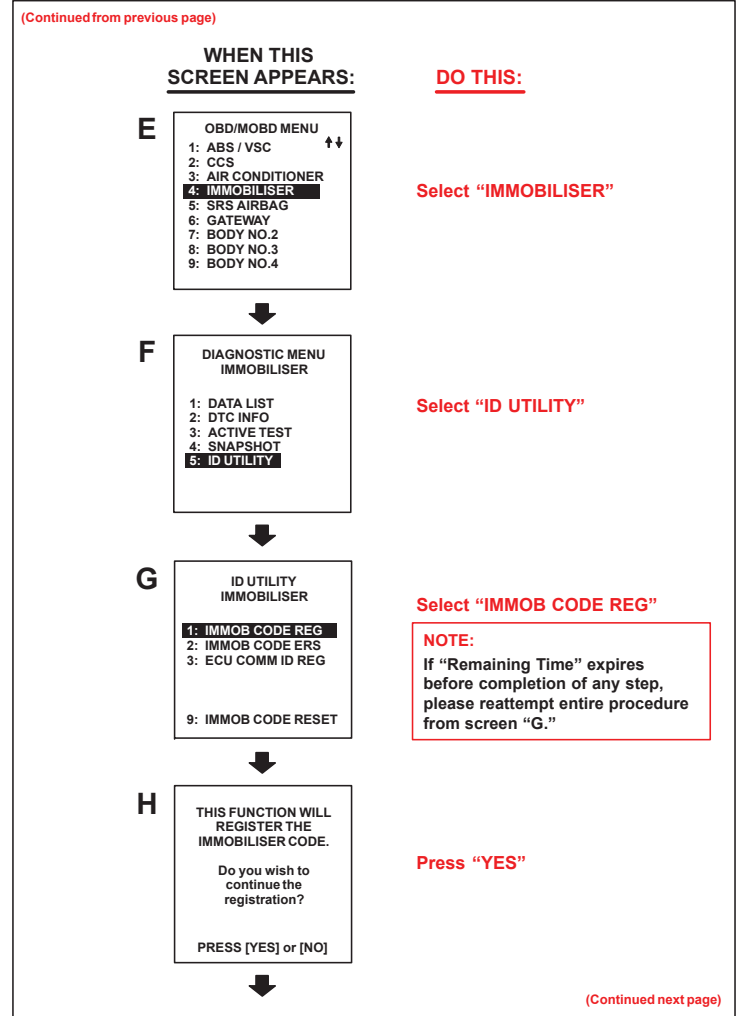   A. Turn the Diagnostic Tester power ON and follow the screen flow below.
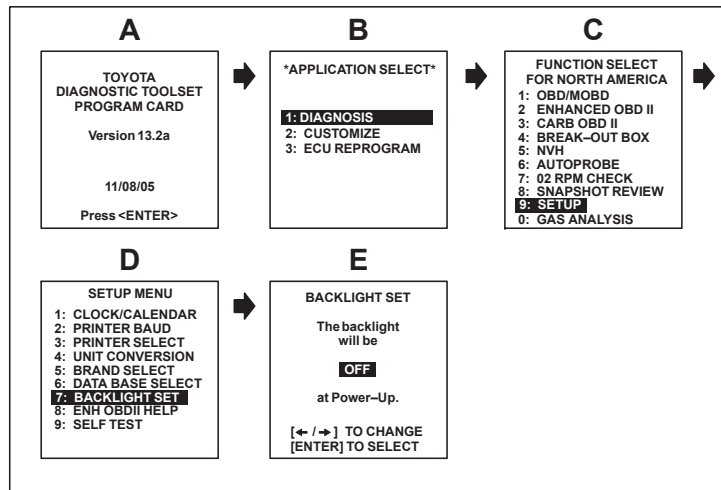
   B. Turn the Diagnostic Tester power OFF and back ON.

**Registration
Procedure:
Immobilizer
Function**

8. Register the Immobilizer function.

   A. Follow the Diagnostic Tester screen flows below. This procedure works best if you use the instructions under the "DO THIS" column and use the screen prints to know WHEN to perform the instructions only.

   B. Verify that a registered master key is in the key slot and the ignition is ON.

**WHEN THIS
SCREEN APPEARS:**   **DO THIS:**

A

TOYOTA
DIAGNOSTIC TOOLSET
PROGRAM CARD

Version 13.2a

11/08/05

Press <ENTER>

Press "ENTER"

B

APPLICATION SELECT

1: DIAGNOSIS
2: CUSTOMIZE
3: ECU REPROGRAM

Select "DIAGNOSIS"

C

FUNCTION SELECT
FOR NORTH AMERICA
1: OBD/MOBD
2 ENHANCED OBD II
3: CARB OBD II
4: BREAK–OUT BOX
5: NVH
6: AUTOPROBE
7: 02 RPM CHECK
8: SNAPSHOT REVIEW
9: SETUP
0: GAS ANALYSIS

Select "OBD/MOBD"

D

VEHICLE SELECT
NEW VEHICLE

LAST VEHICLE

2004 LS430
W/ SMART KEY
W/O LASER CRUISE
W/O R POWER SEAT

Select applicable vehicle

(Continued next page)

**Registration
Procedure:
Immobilizer
Function**
(Continued)

(Continued from previous page)

**WHEN THIS
SCREEN APPEARS:**   **DO THIS:**

E

OBD/MOBD MENU
1: ABS / VSC   ↑↓
2: CCS
3: AIR CONDITIONER
4: IMMOBILISER
5: SRS AIRBAG
6: GATEWAY
7: BODY NO.2
8: BODY NO.3
9: BODY NO.4

Select "IMMOBILISER"

F

DIAGNOSTIC MENU
IMMOBILISER

1: DATA LIST
2: DTC INFO
3: ACTIVE TEST
4: SNAPSHOT
5: ID UTILITY

Select "ID UTILITY"

G

ID UTILITY
IMMOBILISER

1: IMMOB CODE REG
2: IMMOB CODE ERS
3: ECU COMM ID REG

9: IMMOB CODE RESET

Select "IMMOB CODE REG"

NOTE:
If "Remaining Time" expires before completion of any step, please reattempt entire procedure from screen "G."

H

THIS FUNCTION WILL
REGISTER THE
IMMOBILISER CODE.

Do you wish to
continue the
registration?

PRESS [YES] or [NO]

Press "YES"

(Continued next page)

Registration Procedure: Immobilizer Function (Continued)

(Continued from previous page)

WHEN THIS SCREEN APPEARS: **DO THIS:**

I

> Please remove the
> Master Key from
> the IG cylinder,
> insert it again,
> and turn the IG ON
> within 120 seconds.
> Then press [ENTER]
>
> Remaining Time:
> [116] Sec.

(Within 120 seconds)
- **Turn the ignition OFF**
- **Remove the registered key from the key cylinder**
- **Reinsert the registered key**
- **Turn the ignition to ON**
- **Press "ENTER"**

J

> Please remove the
> Master Key from
> the IG cylinder
> within 20 seconds.
> Then press [ENTER]
>
> Remaining Time:
> [16] Sec.

(Within 20 seconds)
- **Turn the ignition OFF**
- **Remove the Registered key from the key cylinder**
- **Press "ENTER"**

K

> Please insert
> the New Key into
> the IG cylinder
> within 10 seconds.
> Then press [ENTER].
>
> DO NOT TURN IG ON
>
> Remaining Time:
> [8] Sec.

(Within 10 seconds)
- **Insert the <u>NEW</u> <u>KEY</u> into the key cylinder**
- **<u>DO NOT</u> turn the ignition ON**
- **Press "ENTER"**

L

> **NOW REGISTERING**
>
> Please wait.
>
> [15] SECONDS

No action required

(Continued next page)

Registration Procedure: Immobilizer Function (Continued)

(Continued from previous page)

WHEN THIS SCREEN APPEARS: **DO THIS:**

M

> THE
> IMMOBILISER CODE
> WAS REGISTERED
> CORRECTLY.
>
> PRESS [ENTER]

- **Wait for this screen to appear.**
- **Press "ENTER"**
- **Remove the new key from the key slot**
- **Reinsert the ORIGINAL key into the key slot**

N

> Please insert a
> Master Key and
> turn the IG to
> ON.
>
> If the ignition
> is already ON,
> please turn it
> OFF and back to
> ON.
>
> PRESS [ENTER]

- **Turn the ignition ON**
- **Press "ENTER"**

O

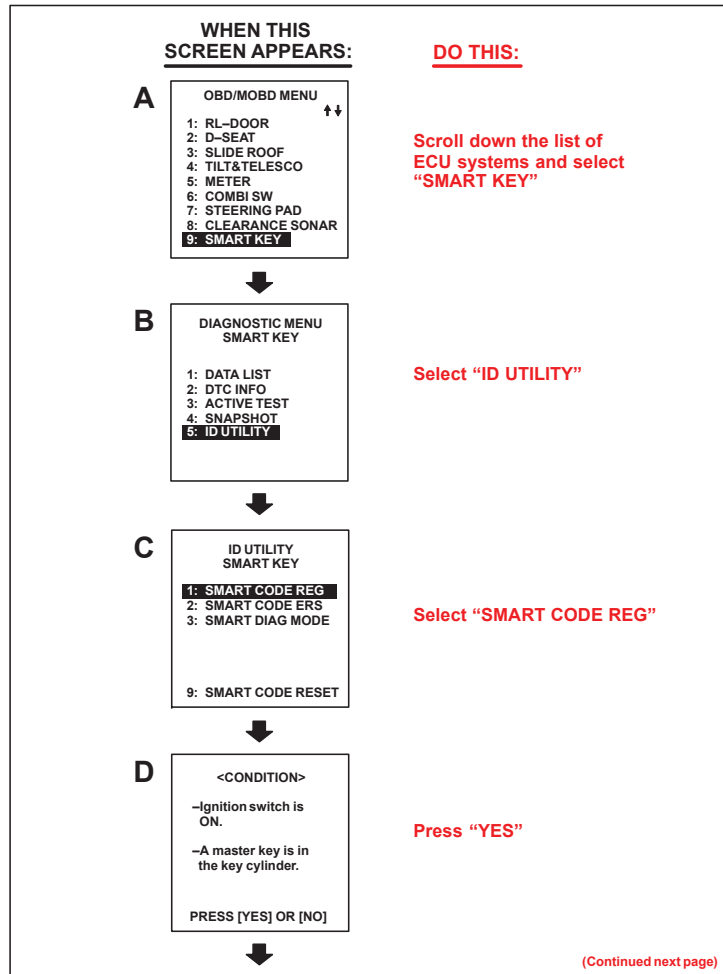> <RESULT>
> Code
> registration was
> successful.
>
> Do you wish to
> register another
> Code?
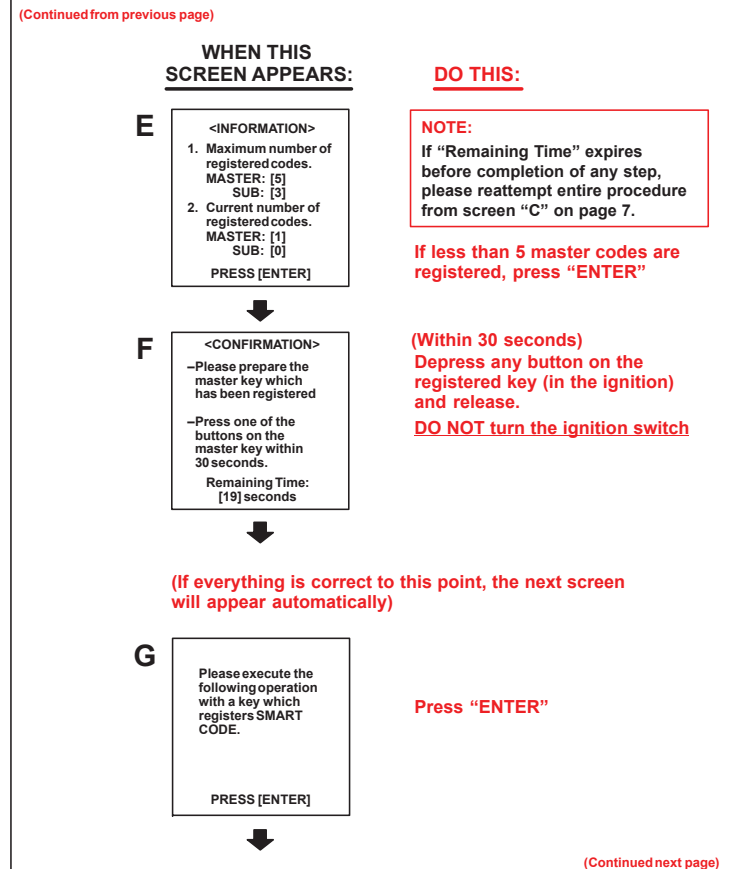>
> PRESS [YES] or [NO]

Immobilizer Registration is complete

Registration Procedure: Smart Key/ Wireless Function

9. Register the Smart Key / Wireless function.

A. From the Immobilizer ID Utility menu (above), **Press the Diagnostic Tester "EXIT" button** <u>twice</u> to bring up the OBD/MOBD Menu.

B. Follow the screen prints below.

WHEN THIS SCREEN APPEARS: **DO THIS:**

A

```
OBD/MOBD MENU        ↑↓
1: RL–DOOR
2: D–SEAT
3: SLIDE ROOF
4: TILT&TELESCO
5: METER
6: COMBI SW
7: STEERING PAD
8: CLEARANCE SONAR
9: SMART KEY
```

Scroll down the list of ECU systems and select "SMART KEY"

B

```
DIAGNOSTIC MENU
SMART KEY

1: DATA LIST
2: DTC INFO
3: ACTIVE TEST
4: SNAPSHOT
5: ID UTILITY
```

Select "ID UTILITY"

C

```
ID UTILITY
SMART KEY

1: SMART CODE REG
2: SMART CODE ERS
3: SMART DIAG MODE



9: SMART CODE RESET
```

Select "SMART CODE REG"

D

```
<CONDITION>

–Ignition switch is
 ON.

–A master key is in
 the key cylinder.


PRESS [YES] OR [NO]
```

Press "YES"

(Continued next page)

Registration Procedure: Smart Key/ Wireless Function (Continued)

(Continued from previous page)

WHEN THIS SCREEN APPEARS: **DO THIS:**

E

```
<INFORMATION>
1. Maximum number of
   registered codes.
   MASTER: [5]
      SUB: [3]
2. Current number of
   registered codes.
   MASTER: [1]
      SUB: [0]

   PRESS [ENTER]
```

NOTE:
If "Remaining Time" expires before completion of any step, please reattempt entire procedure from screen "C" on page 7.

If less than 5 master codes are registered, press "ENTER"

F

```
<CONFIRMATION>

–Please prepare the
 master key which
 has been registered

–Press one of the
 buttons on the
 master key within
 30 seconds.

 Remaining Time:
   [19] seconds
```

(Within 30 seconds) Depress any button on the registered key (in the ignition) and release.

DO NOT turn the ignition switch

(If everything is correct to this point, the next screen will appear automatically)

G

```
Please execute the
following operation
with a key which
registers SMART
CODE.




   PRESS [ENTER]
```

Press "ENTER"

(Continued next page)

**Registration
Procedure:
Smart Key/
Wireless
Function**
(Continued)

(Continued from previous page)

**WHEN THIS
SCREEN APPEARS:**   **DO THIS:**

H

| Please complete the following operation within 30 seconds. –Press [ENTER]. –Hold both UNLOCK and LOCK for one second. –Within 3 seconds, press any button on the key. Remaining Time: [27] seconds |

(Within 30 seconds)

Press "ENTER"

a. Place the Diagnostic Tester on the passenger seat.
b. Hold the new (unregistered) key in front of the center of the steering wheel at approximately mid–chest level.
c. Depress both the Lock and Unlock Buttons simultaneously for 1 second and release.
d. Depress the unlock button and release.
e. Wait for response from vehicle (double chirp).

NOTE:

Registration may take up to 5 seconds. Pressing any other buttons or pressing "UNLOCK" again between steps "c" and "d" may cause the process to fail, or cause Wireless to work, but NOT Smart function.

I

| ID REGISTRATION *NOW REGISTERING* Please perform the button operation from the previous screen. Remaining Time: [6] seconds [EXIT] to abort. |

No action required

J

| <RESULT> Registration was completed. If Immobiliser code is not registered, please execute IMMOB CODE REG. Do you want to register another Code? PRESS [YES] or [NO] |

If additional keys are to be registered, press "YES"

END

10. Confirm that Wireless and Smart functions are working properly.