WIRELESS DOOR LOCK CONTROL SYSTEM

BE226–02

REGISTRATION PROCEDURE

1. HOW TO CODE REGISTRATION (w/o Smart Key System)

NOTICE:

When replacing the theft deterrent ECU or transmitter, registration of recognition code is necessary because they are provided as a single components.

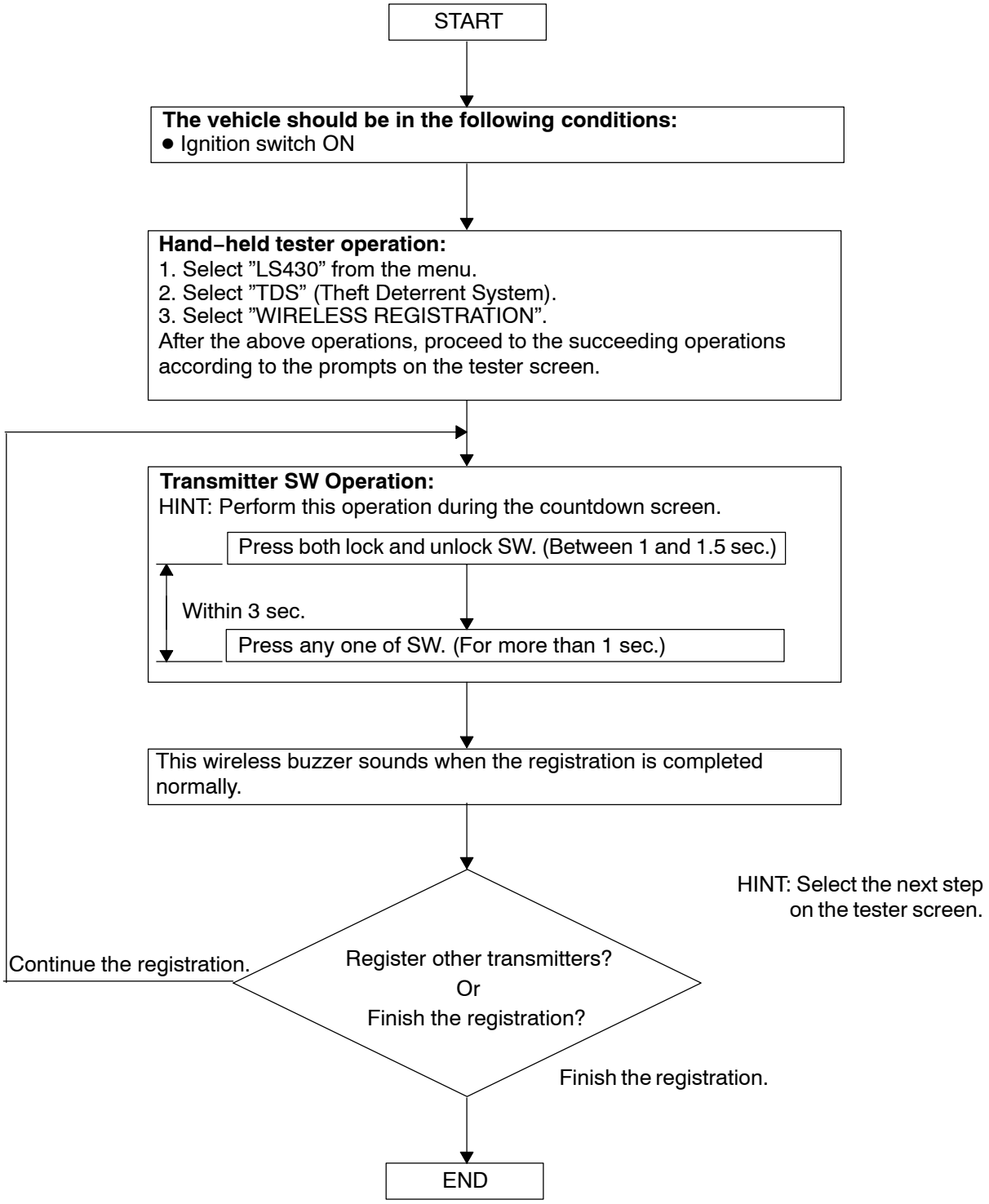
(a) Select the operation mode to perform from the following operation modes.
- Add mode
- Rewrite mode
- Prohibition mode
- Confirmation mode

HINT:
- The ”Add mode” is for adding the newly recognized codes for registration while the already registered codes are retained. This mode is used when the transmitter is added. When the number of the registered codes exceeds 4 codes, the previously registered codes will be erased in order, staring from the first registered code.
- The ”Rewrite mode” is for erasing all the registered codes and registering newly recognized codes only. This mode is used when the transmitter or the door control receiver is replaced.
- The ”Prohibition mode” is for erasing all the registered codes to prohibit the wireless door lock operation. This mode is used when the transmitter is lost.
- The ”Confirmation mode” is for confirming the number of recognition codes that are registered. This mode is used to check the number of registered codes when new codes are added to the registration, etc.

(b) Follow the chart on the following page to register the transmitter recognition code to the theft deterrent ECU.

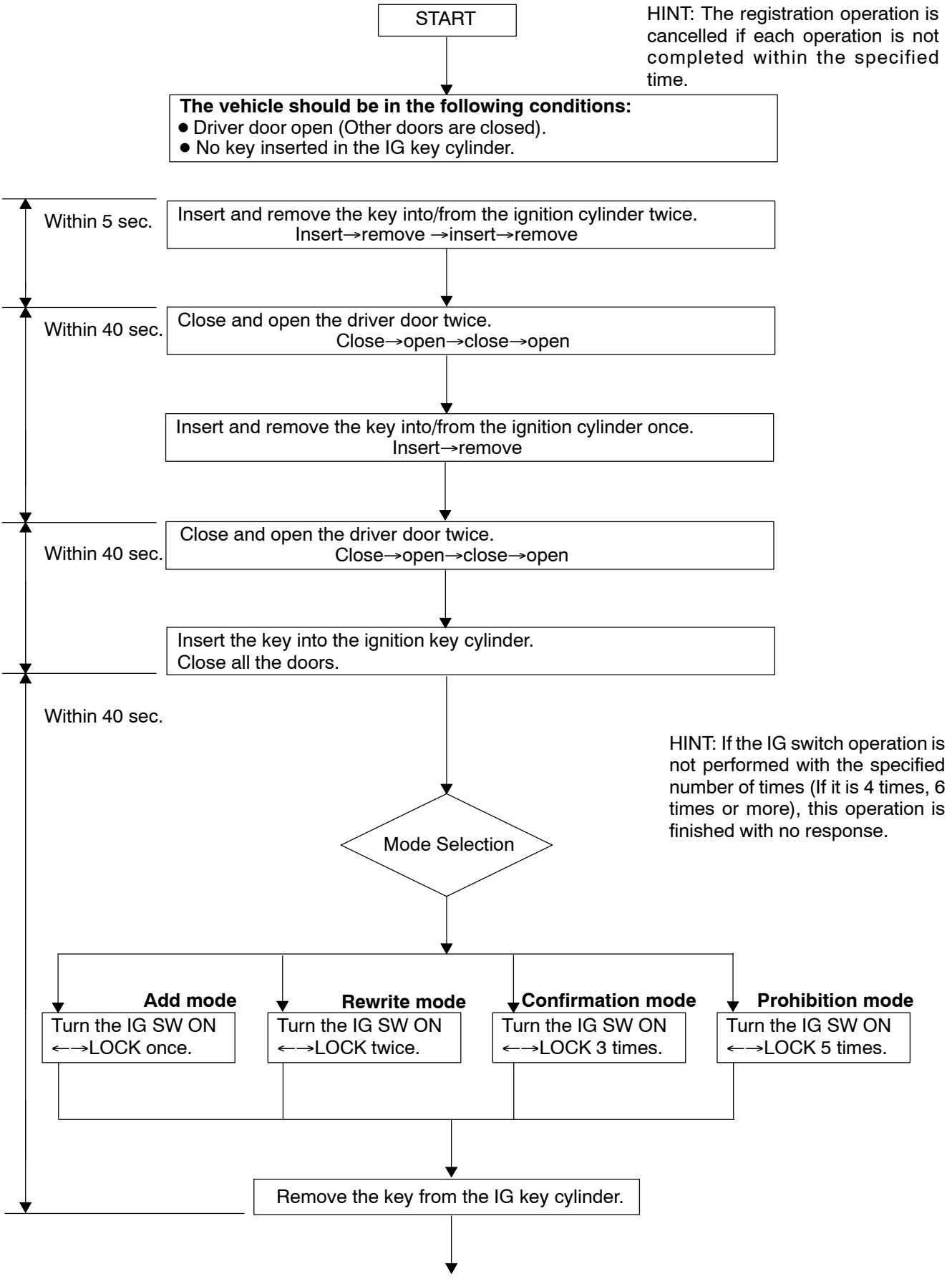
HINT:
- When procedure is out of the specified, the registration operation is cancelled.
- Maximum 4 recognition codes can be registered.

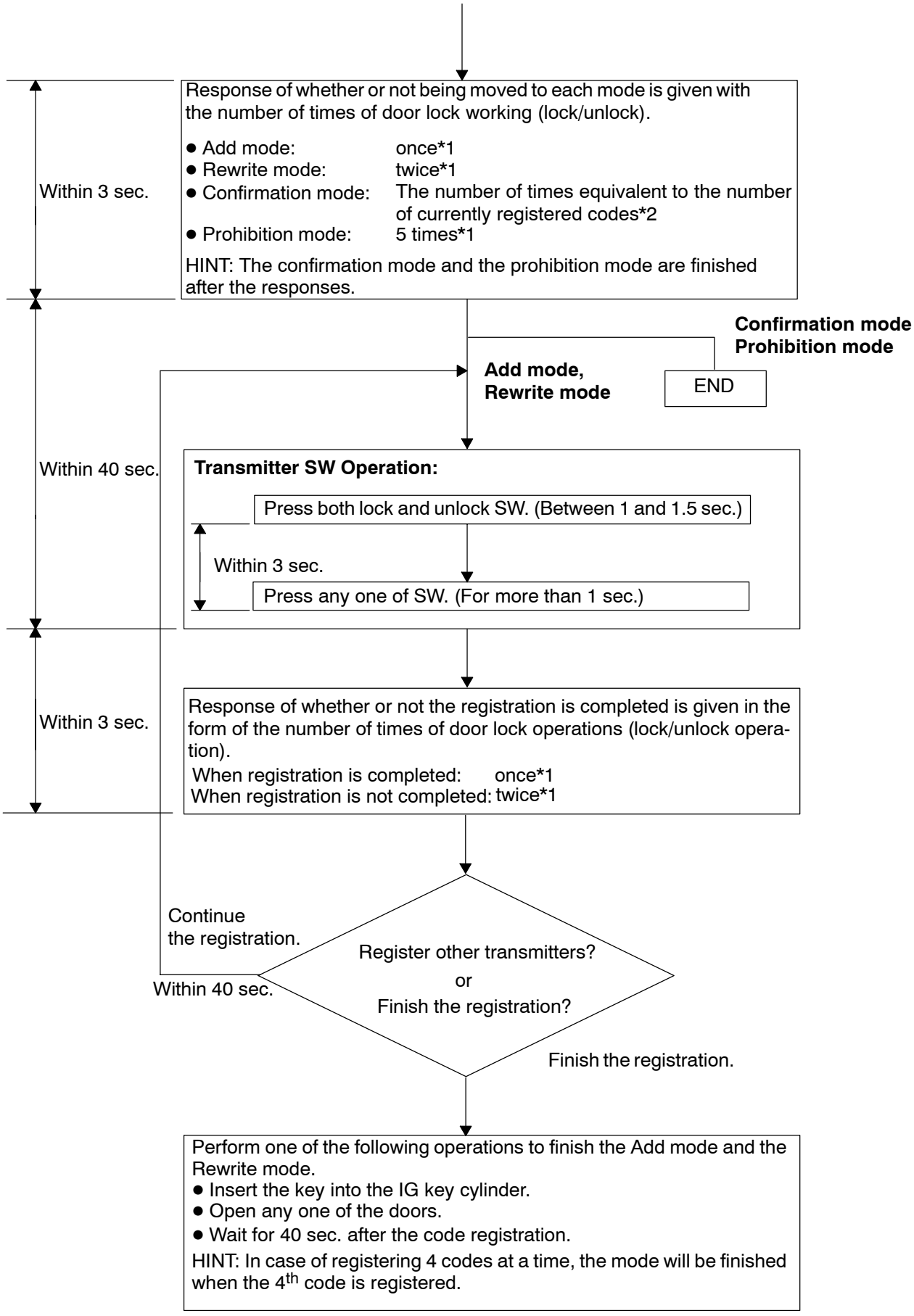
(c) By LEXUS Hand–Held Tester



HINT:
This page is to show briefly the registration procedure using the hand–held tester.
For detailed procedures, please refer to the prompts on the tester screen.
The number of currently registered codes can be checked out on the first screen of the WIRELESS REGISTRATION.

(d) By Switch Operation:

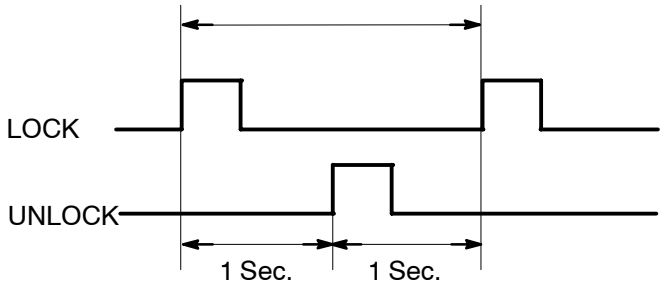



Response of whether or not being moved to each mode is given with the number of times of door lock working (lock/unlock).
● Add mode: once*1
● Rewrite mode: twice*1
● Confirmation mode: The number of times equivalent to the number of currently registered codes*2
● Prohibition mode: 5 times*1
HINT: The confirmation mode and the prohibition mode are finished after the responses.
Within 3 sec.
Confirmation mode
Prohibition mode
Add mode,
Rewrite mode
END
Within 40 sec.
Transmitter SW Operation:
Press both lock and unlock SW. (Between 1 and 1.5 sec.)
Within 3 sec.
Press any one of SW. (For more than 1 sec.)
Within 3 sec.
Response of whether or not the registration is completed is given in the form of the number of times of door lock operations (lock/unlock operation).
When registration is completed: once*1
When registration is not completed: twice*1
Continue the registration.
Register other transmitters?
or
Finish the registration?
Within 40 sec.
Finish the registration.
Perform one of the following operations to finish the Add mode and the Rewrite mode.
● Insert the key into the IG key cylinder.
● Open any one of the doors.
● Wait for 40 sec. after the code registration.
HINT: In case of registering 4 codes at a time, the mode will be finished when the 4th code is registered.

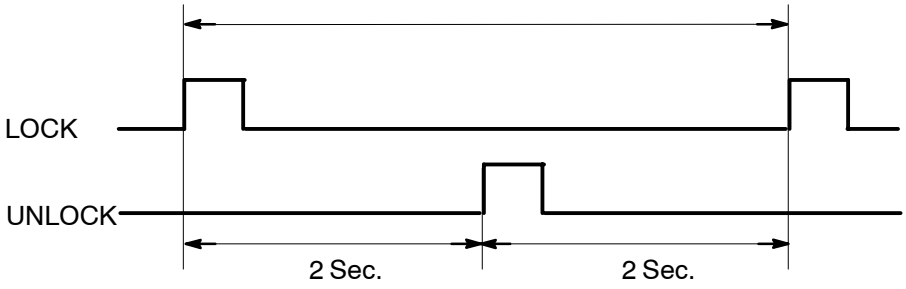
HINT:

Operation cycle of the door lock (lock/unlock operation)

*1: Door Lock Motor



*2: Door Lock Motor



2. HOW TO CODE REGISTRATION (w/ Smart Key System)

HINT:

- Code registration is needed when the Theft Deterrent ECU or the smart key is replaced.
- Smart key has 2 types: Master key which has a trunk SW, sub key which has no trunk SW.
- The smart key system can be performed only by the master key.

(a) Select the operation mode to perform from the following operation modes.

- New registration mode (When ECU is replaced.).
- Add mode
- Erase mode
- Confirmation mode

HINT:

- The ”New registration mode” is for newly registering the key code when ECU is replaced. When registering the code in this mode, be sure to register the master key code first. It is because that if the sub key code is registered first in the New registration mode, then ”Master key SW operation is performed in the Add mode, the already registered sub key codes are all cleaned out.
- The ”Add mode is for adding the key code to the registration.
- The ”Erase mode” is for erasing all the key codes except the code of the master key to which the ”Master key SW operation” is performed in the Erase mode. PLease use this model if loosing the key, etc.
- The ”Confirmation mode” is for confirming the number of currently registered codes in ECU. The number of the door lock operation gives the total number of the master key codes and the sub key codes.

(b) Perform the code registration and the code erasure according to the flow chart.

HINT:

- Up to 5 master keys and 3 sub keys can be registered in the ECU.
- Key code is the same as the wireless door lock code. When the smart key is registered, it can be used both for the smart key system and the wireless door lock system.

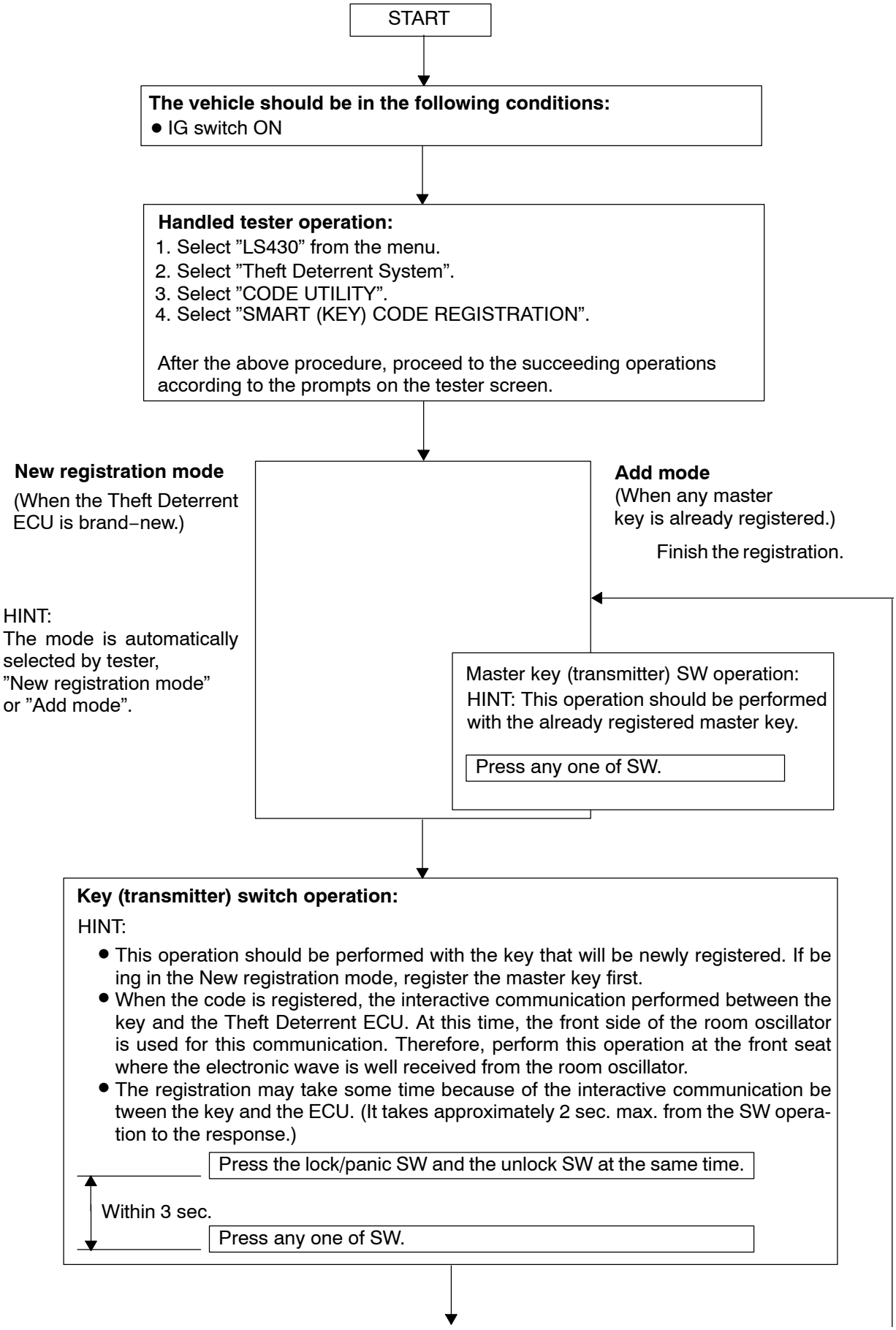
(c) ”New Registration of *Key Number” and ”Key Number Change”

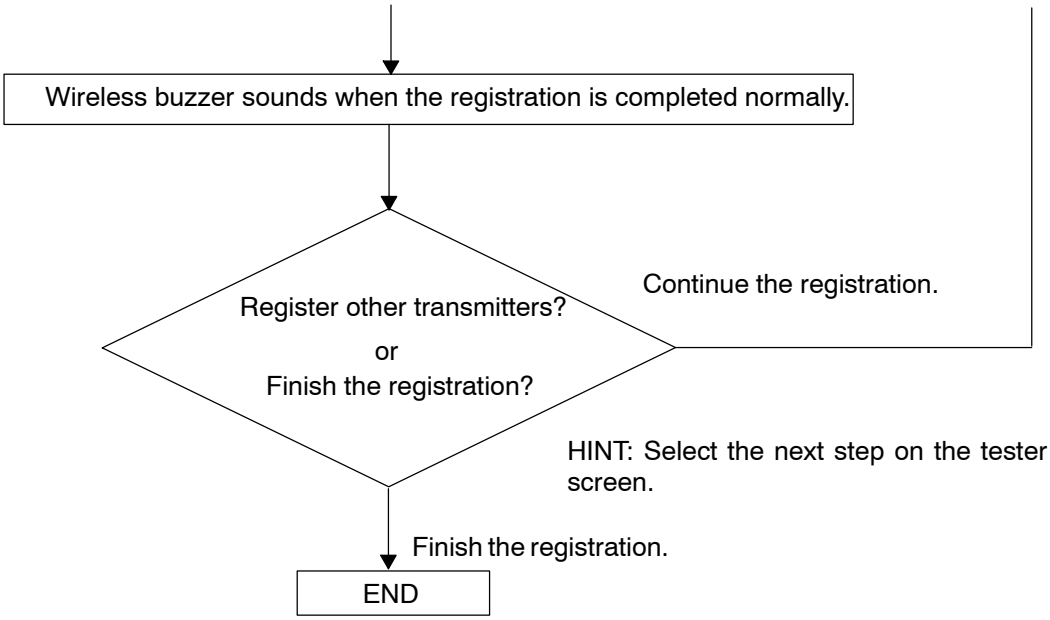
When the key number of the vehicle is different with the one of the Theft Deterrent ECU due to some operations (Such as the case that the Theft Deterrent ECU is replaced, or all the key cylinders of the vehicle are replaced.), be sure to perform the ”New Registration of Key Number” or the ”Key Number Change” to match the key numbers of the vehicle and the Theft Deterrent ECU.

HINT:

*: Key number has 5 digit number stamped on key number plate.

(d) By LEXUS Hand–Held Tester: Registration

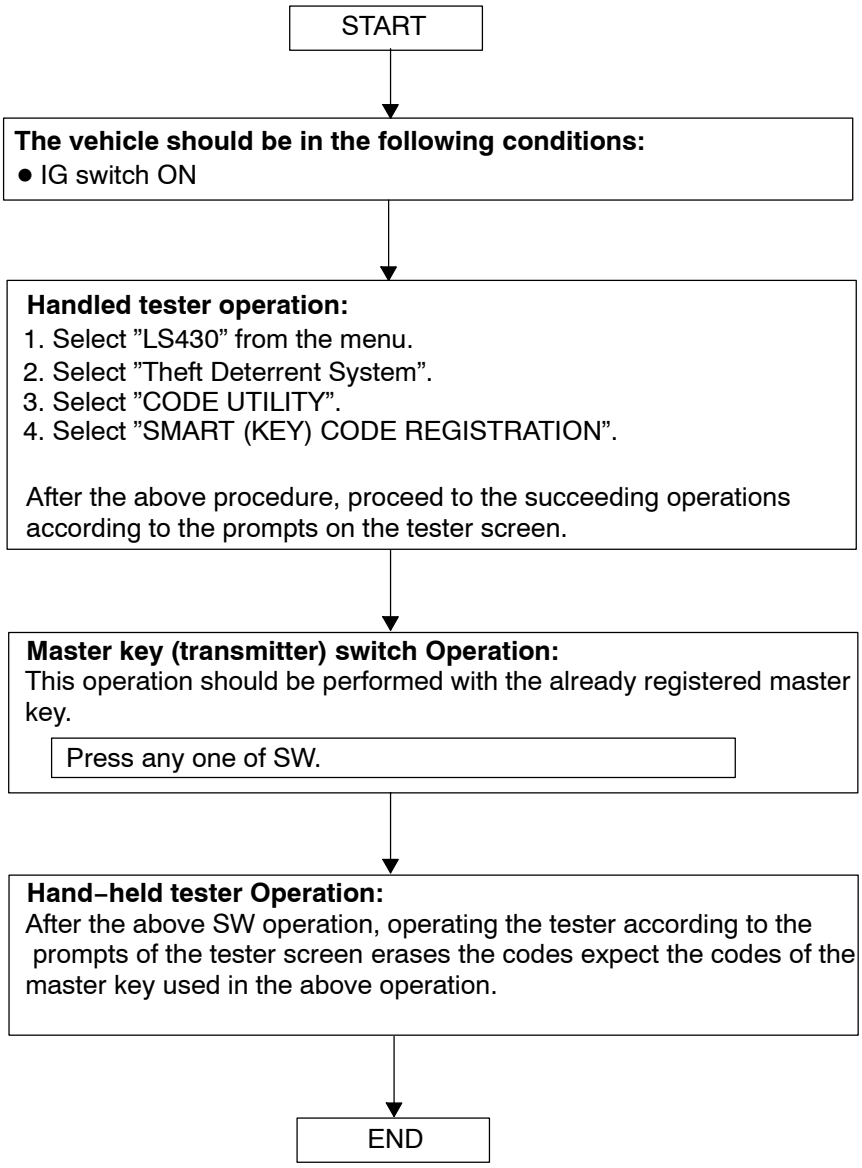




HINT:

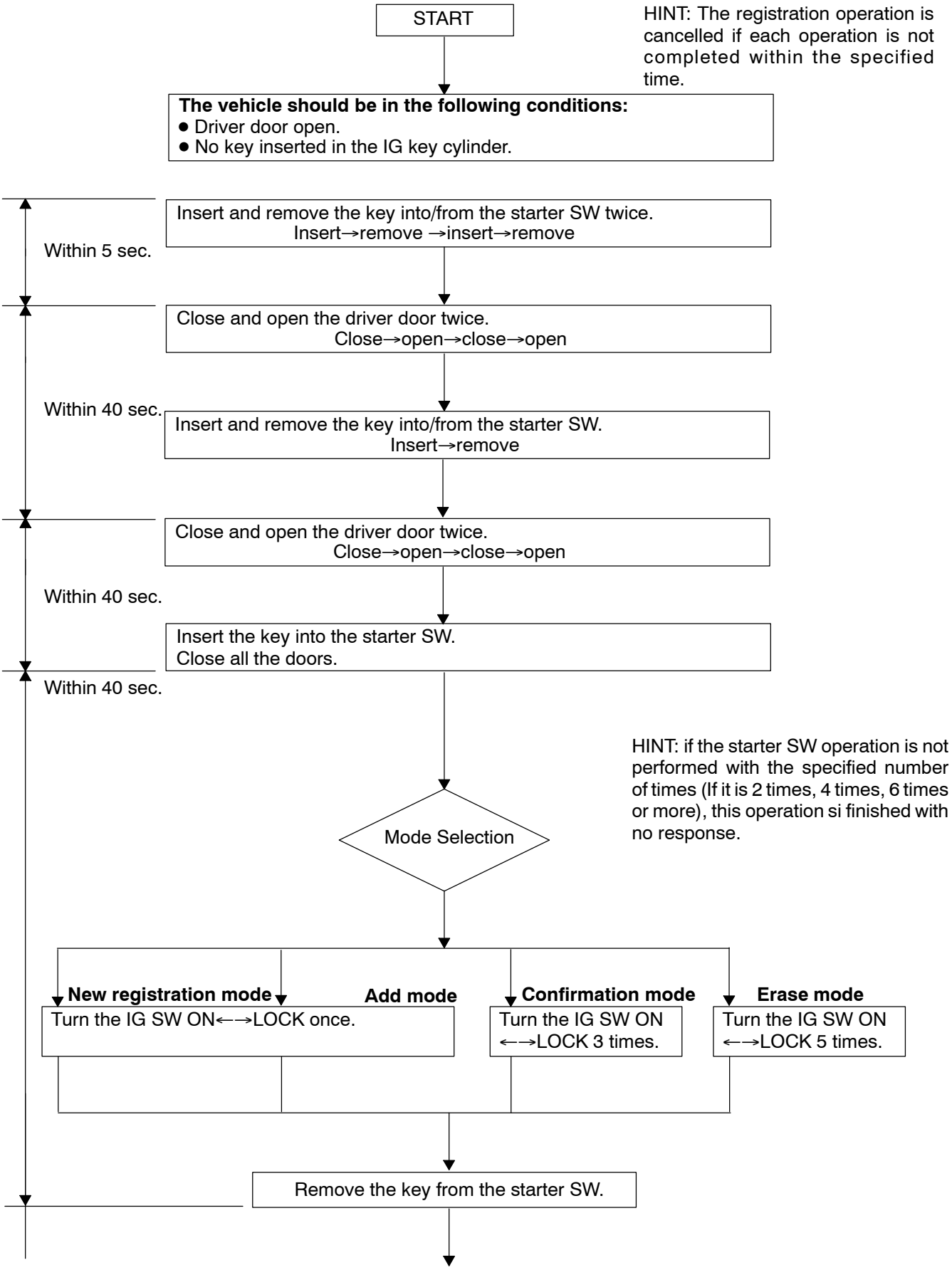
- This page is to show briefly the registration procedures using the hand–held tester. For detailed procedures, please refer to the prompts on the tester screen.
- The number of currently registered codes canc be checked out on the first screen of the SMART (KEY) CODE REGISTRATION.

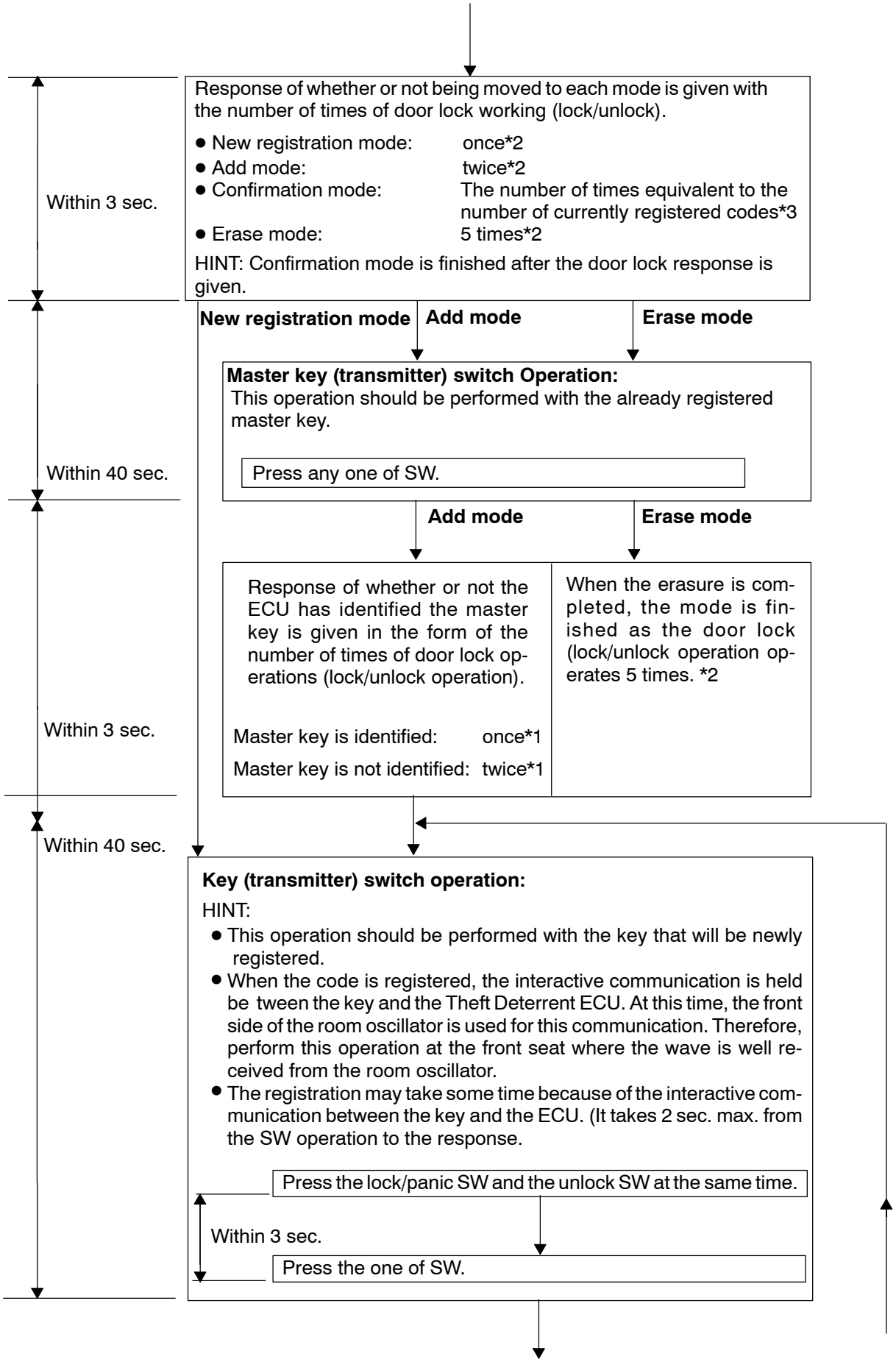
(e) By LEXUS Hand–Held Tester: ERASURE

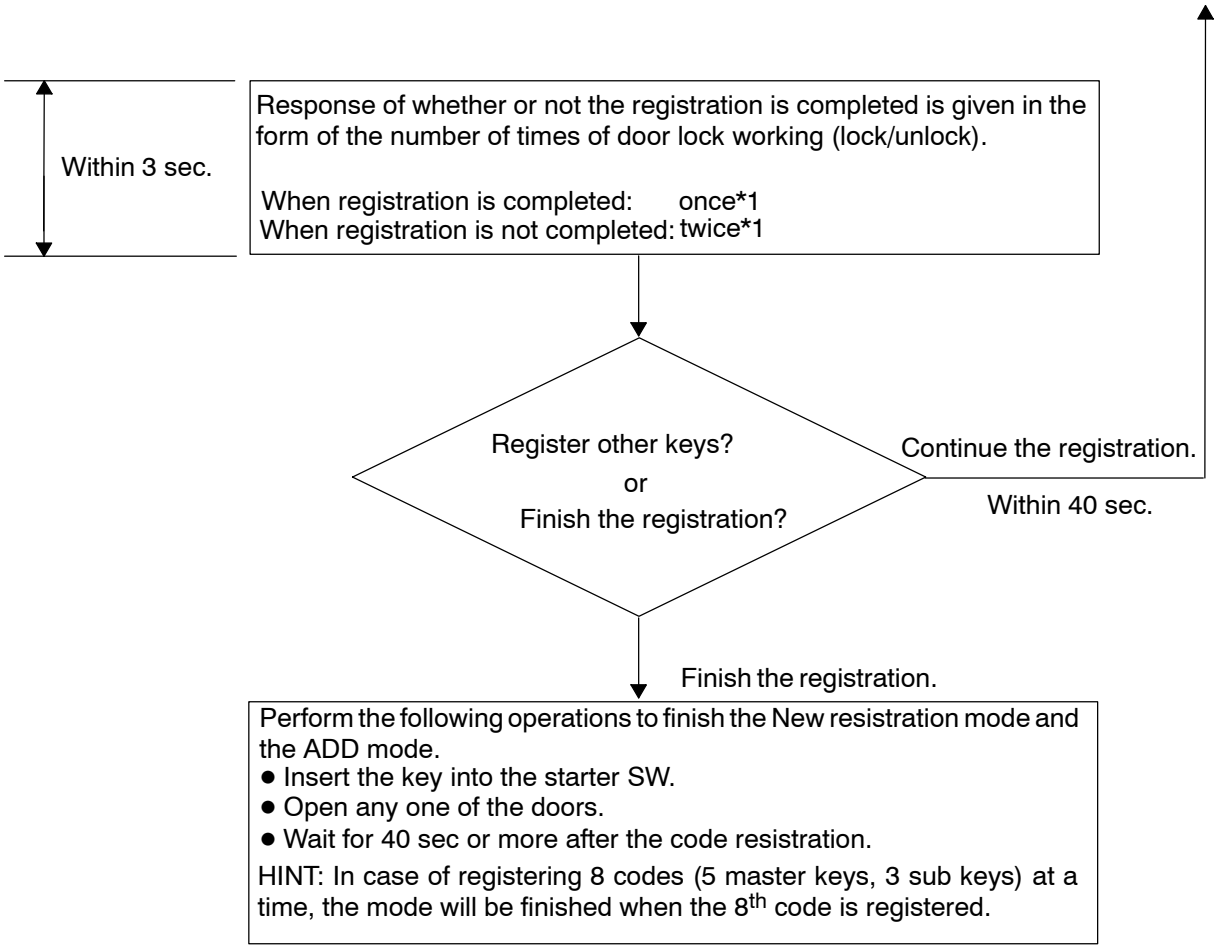


HINT:
This page is to show briefly the registration procedures using the hand–held tester. For detailed procedures, please refer to the prompts on the tester screen.

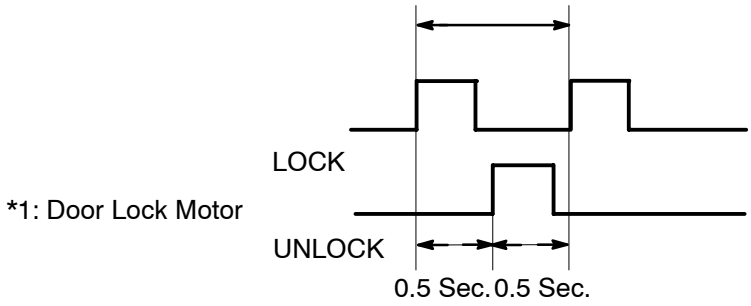
(f) By switch operation:

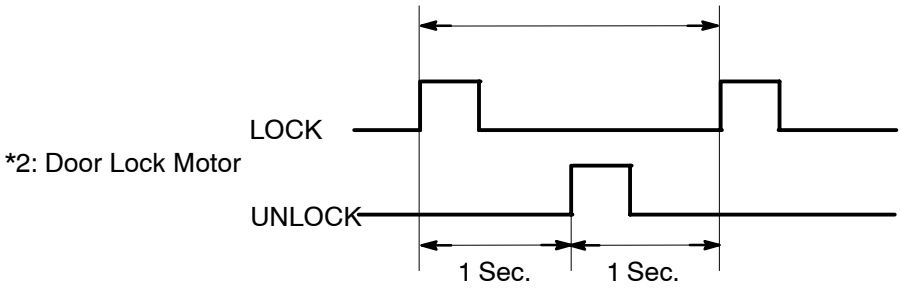


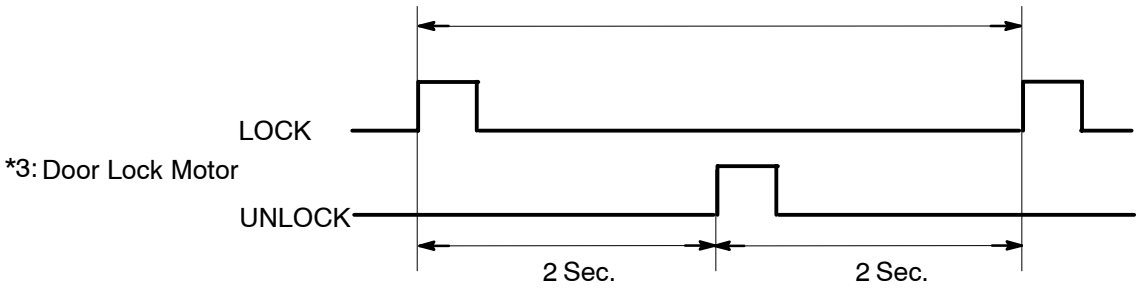

Response of whether or not being moved to each mode is given with the number of times of door lock working (lock/unlock).
● New registration mode: once*2
● Add mode: twice*2
● Confirmation mode: The number of times equivalent to the number of currently registered codes*3
● Erase mode: 5 times*2
HINT: Confirmation mode is finished after the door lock response is given.
Within 3 sec.
New registration mode
Add mode
Erase mode
Master key (transmitter) switch Operation:
This operation should be performed with the already registered master key.
Press any one of SW.
Within 40 sec.
Add mode
Erase mode
Response of whether or not the ECU has identified the master key is given in the form of the number of times of door lock operations (lock/unlock operation).
Master key is identified: once*1
Master key is not identified: twice*1
When the erasure is completed, the mode is finished as the door lock (lock/unlock operation operates 5 times. *2
Within 3 sec.
Within 40 sec.
Key (transmitter) switch operation:
HINT:
● This operation should be performed with the key that will be newly registered.
● When the code is registered, the interactive communication is held be tween the key and the Theft Deterrent ECU. At this time, the front side of the room oscillator is used for this communication. Therefore, perform this operation at the front seat where the wave is well received from the room oscillator.
● The registration may take some time because of the interactive communication between the key and the ECU. (It takes 2 sec. max. from the SW operation to the response.
Press the lock/panic SW and the unlock SW at the same time.
Within 3 sec.
Press the one of SW.


Within 3 sec.
Response of whether or not the registration is completed is given in the form of the number of times of door lock working (lock/unlock).
When registration is completed: once*1
When registration is not completed: twice*1
Register other keys?
or
Finish the registration?
Continue the registration.
Within 40 sec.
Finish the registration.
Perform the following operations to finish the New resistration mode and the ADD mode.
● Insert the key into the starter SW.
● Open any one of the doors.
● Wait for 40 sec or more after the code resistration.
HINT: In case of registering 8 codes (5 master keys, 3 sub keys) at a time, the mode will be finished when the 8th code is registered.

HINT:
Operation cycle of the door lock (lock/unlock operation)



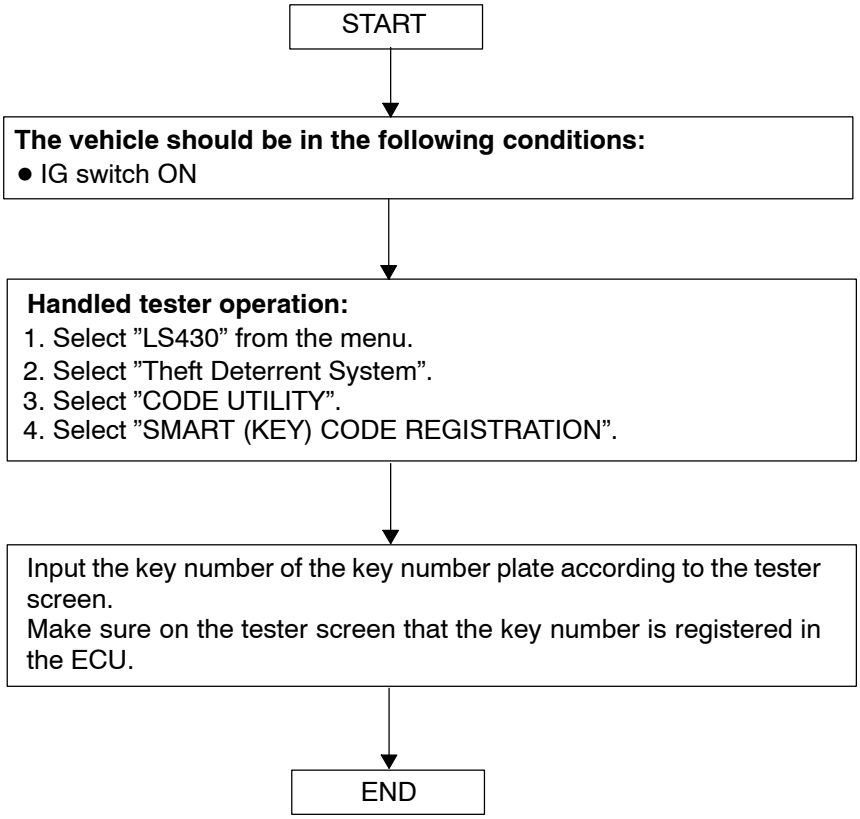




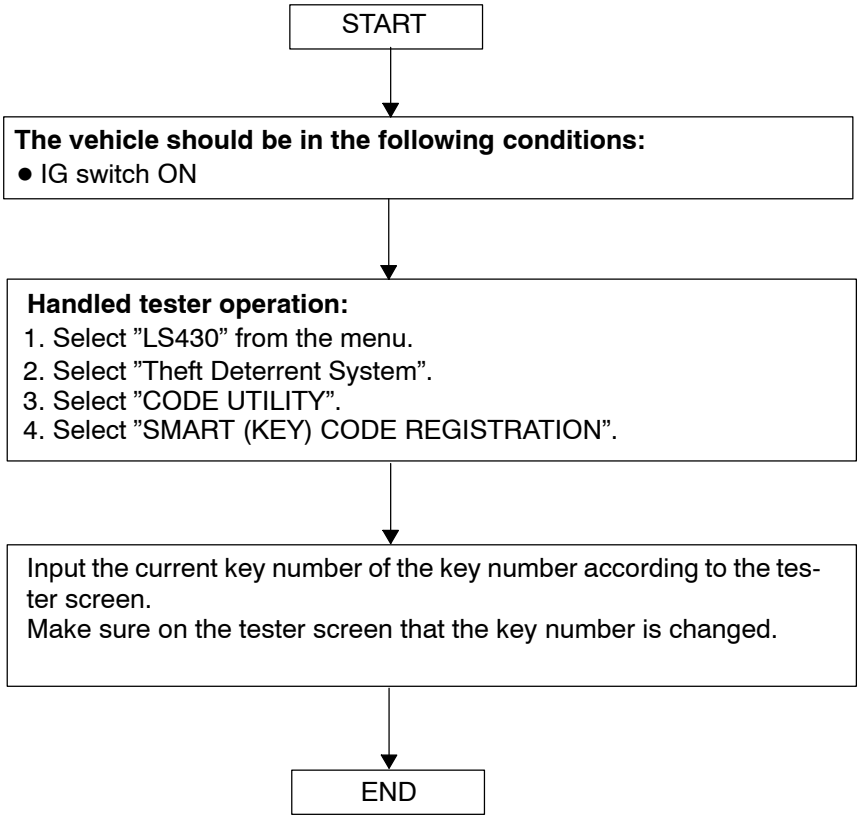
(g) New registration of key number:

HINT:

- Be sure to perform this operation when the Theft Deterrent ECU is replaced by the new one (in order to register ID of the each vehicle to the ECU.).
- The key number is typed on the key number plate.



(h) Change the key number:

HINT:

- Be sure to perform this operation when the key number of the vehicle is changed, such as the case that all the key cylinders are replaced.
- The key number is typed on the key number plate.