

**SDD**  
SilcaDiagnosticDevice

**SBB**

**SW- FORD® GROUP -L0 (SDD/SBB)**

CODE: D431367XA - VERS. 3.0

GB

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# SW- PRG. FORD® GROUP-L0 (SDD/SBB)

1






## FORD® GROUP FUNCTIONS MENU



(FORD® USA - LINCOLN® - MERCURY® - MAZDA® - JAGUAR®)

The functions on these vehicles are:

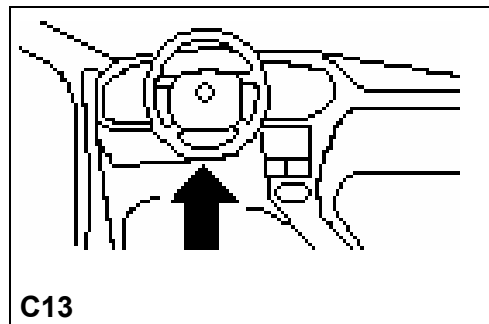
- Programme new keys in the immobilizer also when the original keys have been mislaid;
- Add new keys to the immobilizer;
- Delete the code of all keys from the immobilizer memory, but re-programme 2 of them;
- Check how many keys are memorized in the immobilizer;
- Delete any anomalies memorized in the immobilizer.

To make use of this function, for the model listed, use:

	 <p>SWITCH ADAPTER</p>
 <p>CABLE FORD OBDII [03] (standard)</p>	 <p>Security access approx. 12 minutes</p>
 <p>Keys to be programmed (Max.8/15)</p>	

SBB	CABLE/ADAPTOR
	 <p>CABLE OBD II [00] (STANDARD)</p>

### WHERE TO FIND THE PLUG DIAGNOSTICS



## SELECTING THE CAR MAKE

In this case, SDD/SBB is not able to automatically recognize the various control units connected. To identify the type of communications procedure to start, it is necessary to identify:

- CAR MODEL
- YEAR OF MANUFACTURE
- SYSTEM TYPE

Procedure	System
[1]	PATS 2
[2]	HEC - ECM

Given the difficulty of identifying the type of system used in the vehicle, for models that have different procedures for the years indicated, try all the suggested procedures in turn. Example:

- FORD -		
	EXCURSION [1]	(97-99)
	EXCURSION [2]	(97-99)
	EXPEDITION	(97-99)
>	EXPEDITION	(99-)
	EXPEDITION	(01-)
		(98-)

↑↓↔↻

## FUNCTIONS MENU

In this section, you can execute the functions provided, in particular:

- Storing new keys in the immobilizer even when all the original keys have been lost;
- Adding new keys in the immobilizer "PROGR. NEW KEYS (A)";
- Erasing the codes for all keys from the immobilizer's memory provided that you reprogram two "NEW KEYS PROGRAMMING (A-C)";
- Checking how many keys are stored in the immobilizer's memory;
- Eliminating any errors stored in the immobilizer's memory.

**ATTENTION:** The programming system for FORD® GROUP is structured in such a way that it is not possible to individually erase one or more keys for the vehicle.

**NOTE: ALWAYS USE A FORD OBDII (03) CABLE.**

- Use the machine to program/erase keys from the immobilizer's memory only if really necessary, **the programming/erasure process can take up to 30 minutes;**
- If possible, use the direct manual programming/erasure procedure described in the HELP menu F2.

## ATTEMPTING TO START A CAR USING A KEY THAT HAS NOT BEEN STORED IN MEMORY

In this case, the immobilizer system goes into protection mode and it is not possible to start the vehicle even using a key intended for that purpose. This situation is indicated by a rapid flashing of the immobilizer warning light.

- To unlock the vehicle, insert a functioning key into the ignition switch and hold it in the **ON position** until the immobilizer warning light goes off (this procedure takes a few minutes).

The FORD® GROUP functions menu is structured as follows:

- A key has already inserted into the ignition switch and turned to the **ON position**.

The following is displayed:

```
Turn ignition OFF!  
  
Press any key...
```

- Turn the key to the **OFF position**. Depending on the vehicle model selected, the following is displayed:

```
- FORD GROUP MAKE -  
> PROG. NEW KEYS  
  READING ERRORS  
  ERASING ERRORS  
  
↑↓ ↻
```

```
- FORD GROUP MAKE -  
> ADDING KEYS  
  NUM.OF KEYS IN MEM.  
  ERASE ALL KEYS  
  
↑↓ ↻
```

- Select and press **ENTER**.

## 1.1 PROGRAMMING NEW KEYS

### 1.1.1 PROGRAMMING NEW KEYS (A)

This function is used to add or erase keys in the immobilizer's memory.

- To activate the function, select "**PROG. NEW KEYS**" and press **ENTER**.

The following is displayed:

```
PROG.NEW KEYS (A)  
> ADDING KEYS  
  NUM.OF KEYS IN MEM.  
  ERASE ALL KEYS  
  
↑↓ ↻
```

#### 1.1.1.1 ADDING KEYS

This function is used to add new keys.

- Select "**ADD**" and press **ENTER**; the following is displayed:

```
- ADDING KEYS -  
Turn ignition ON!  
  
↻
```

- Turn the key to the **ON position**;
- Press **ESC** to exit;
- Press **ENTER** to continue.

After a few seconds, the following is displayed:

```
Insert the new
key, turn
ignition ON

Press any key...
```

- Insert the **key to be programmed**, turn it to the **ON position** and press any key.  
The following is displayed:

```
Safety access
procedure

Elapsed time:
XX / max 800 sec
```

At this point, a dialog takes place between the device and the immobilizer control unit that can take up to 800 sec.

If the communication and the data exchange function correctly, the following will eventually be displayed:

```
Safety access
obtained
```

At that point, the **key programming phase** begins.

After a few seconds, the following message appears (for a few seconds):

```
Prog.keys
```

If the programming is successful, the following message appears indicating the new number of keys in memory:

```
Num.of keys in mem:

XX

Please wait
```

After a few seconds, the following is displayed:

```
Turn ignition OFF!  
  
Press any key...
```

- Turn the key to the **OFF position** and press any key.

## TESTING KEYS

**ATTENTION:** To check that the stored keys work, try starting the vehicle at least 2 times. If this fails, repeat the operation.

## OPERATIONS ARCHIVES - USERS DATA

When the programming operation has been completed, the following appears:

```
Do you want to save  
the customer data?  
  
NO  
>YES  
  
↑↓ ↶↷
```

- Select **YES/NO** and press **ENTER**;
- **No**, return to the **IMMOBILIZER functions menu** screen;
- **Yes**, save the data for the operation that has just been completed;
- Press **ESC** to exit.

## SAVING USER DATA

To enter user data, the following is displayed:

```
- USER DATA -  
POS.: 001  
DATE: 19/07/01  
> SURNAME: XXXXXXXXXXXX  
NAME: XXXXXXXXXXXX  
REG.NO: XXXXXXXXXXXX  
  
↑↓↔↷
```

- SURNAME (mandatory) (**12 characters**);
- NAME / REG. NO. (optional) (**12 characters**).

The following data will be saved automatically:

- **POS.:** Location where the data will be saved;
- **DATE:** Operation date;
- **MAKE:** Make of the vehicle for which the operation was performed;
- **MODEL:** Model of the vehicle for which the operation was performed;
- **YEAR:** Model year;
- **Keys stored:** Number of keys stored in memory;
- **PIN CODE:** (if storage is confirmed by an operator);
- **IMMO ID:** Immobilizer control unit ID.

To enter data:

- Use the ↑↓ keys to position on the desired item;
- Press ⇨ to enter and select the field where the text is to be typed;

- To confirm, press **ENTER**;
- To exit and save the data, press **ESC**.

```

      Is information
      inserted correctly?

                NO
>YES
  
```

↑↓ ↶ ↷

- Select **YES/NO** and press **ENTER**;
- **No**, return to the data entry screen;
- **Yes**, return to the data entry screen;
- Select **ESC** to exit.

### 1.1.1.2 NUMBER OF KEYS STORED

This function is used to display the number of keys stored in the immobilizer's memory. After selecting it, the following is displayed:

```

- NUM.OF KEYS IN MEM. -
Turn ignition ON!

Press any key...
  
```

- Turn the key to the **ON position** and press any key. The following is displayed:

```

Num.of keys in mem.:

                XX

Press any key...
  
```

- Press any key to continue. The following is displayed:

```

Turn ignition OFF!

Press any key...
  
```

- Turn the key to the **OFF position** and press any key;
- Remove the key.

### 1.1.1.3 ERASE ALL KEYS

This function is used to erase all keys stored in the immobilizer's memory. To proceed, 2 keys must be stored.

**ATTENTION:** The key erasure procedure provides for programming 2 keys necessary for the immobilizer to start the car.

- In the "PROG. NEW KEYS" menu, select "ERASE ALL KEYS" and press **ENTER**.



The following is displayed:

```
- ERASE ALL KEYS -  
It is necessary  
to have 2 keys  
available  
Want to go on?  
YES  
>NO  
↑↓↶↷
```

- Select **YES/NO** and press **ENTER**;
- **No**, return to the data entry screen;
- **Yes**, save the data;
- Press **ESC** to exit.

The following is displayed:

```
Turn ignition ON!  
  
Press any key...
```

- Insert the key, turn it to the **ON position** and press any key.

The following is displayed:

```
Safety access  
procedure  
  
Elapsed time:  
XX / max 800 sec
```

At this point, a dialog takes place between the device and the immobilizer control unit that can take up to 800 sec.

If the communication and the data exchange function correctly, the following will eventually be displayed:

```
Safety access  
obtained
```

At this point, the **erase all keys phase** begins.

After a few seconds, the following is displayed:

```
All keys  
have been erased  
  
Please wait
```

Key erasure has been completed.

At this point, the 2 key programming phase begins.

If 1st key programming is successful, the following message is displayed after a few seconds:

```
Num. of keys
in memory:

      1

Please wait
```

- After a few seconds, the following is displayed:

```
Follow the procedure:
  Turn ignition off!
  Insert the second key!
  Turn ignition on
  within 10 sec.

Press any key...
```

- Turn the **1st key** to the **OFF position**, then insert the **2nd key** and turn it to the **ON position**, all within 10 seconds;
- Press any key to continue.

At this point, the **2nd key programming phase** begins.

If **2nd key programming** is successful, the following message is displayed after a few seconds:

```
Keys number in
memory:

      2

Please wait
```

After a few seconds, the following is displayed:

```
Turn ignition OFF!

Press any key...
```

- Turn the key to the **OFF position** and press any key.

## **SAVING USER DATA**

(the sequence of operations is the same as that described on page 7)

## 1.2 READING ERRORS

This function is used to check for problems in the immobilizer's memory.

- After selecting it, press **ENTER**. The following is displayed:

```
- READING ERRORS -  
  
Turn ignition ON!  
  
Press any key...
```

- Turn the key to the **ON position** and press any key.

### NO ERRORS FOUND

If no problems are found, the following is displayed after a few seconds:

```
- READING ERRORS -  
  
NO ERROR  
DETECTED  
  
Press any key...
```

### ERRORS FOUND

If problems are found, the number of errors (XX) stored in the control unit is displayed:

```
- READING ERRORS -  
  
Detected  
XX  
errors  
  
Press any key...
```

Press any key to display a description of the error:

```
ERR. XXXXXXXXXXXX 1/X  
  
Description  
of the error...  
  
↑↓⇐⇒ ↻
```

- **ERR: XXXXXXXXXXXX** error code;
- Press **↑↓⇐⇒** to scroll through all the errors found;
- Press **ESC** to exit;

The following is displayed:

```
Turn ignition OFF!  
  
Press any key...
```

- Turn the key to the **OFF position** and press any key.

### 1.3

## ERASING ERRORS

After selecting and pressing **ENTER**, the following appears:

```
ERASING ERRORS  
Erase  
the active errors:  
>NO  
YES  
  
↑↓ ↻
```

- Select **YES/NO** and press **ENTER**;
- **No**, return to the previous menu;
- **Yes**, erase the errors in memory;
- Press **ESC** to exit.

The following is displayed:

```
Turn ignition ON!  
  
Press any key...
```

- Turn the key to the **ON position** and press any key.
- After a few seconds, the following message appears:

```
TERMINATED  
ERASING  
  
Press ESC to quit
```

- Select **ESC** to exit.

The following message appears:

```
Turn ignition OFF!  
  
Press any key...
```

- Turn the key to the **OFF position** and press any key.

## 1.4

### ADDING KEYS

This function is used to add keys to the immobilizer.

- To activate the function, select **"ADD"** and press **ENTER**.

The following is displayed:

```
- ADDING KEYS -  
Insert the  
new key  
  
Turn ignition ON!  
  
↩
```

- Insert the key **to be programmed** and turn it to the **ON position**;
- Press **ESC** to exit;
- Press **ENTER** to continue.

The following is displayed:

```
Safety access  
procedure  
  
Elapsed time:  
XX / max 800 sec
```

At this point, a dialog takes place between the device and the immobilizer control unit that can take up to 800 sec.

If the communication and the data exchange function correctly, the following will eventually be displayed:

```
Safety access  
obtained
```

- At this point, the **key programming phase** begins;
- If no errors occur during the process, the following message is displayed:

```
The key have been  
stored  
  
Press any key...
```

- Press any key to continue.

### SAVING USER DATA

(the sequence of operations is the same as that described on page 7).

## 1.5 ERASING ALL KEYS

This function is used to erase all keys in the immobilizer's memory. To proceed, two keys must be stored.

**ATTENTION:** The key erasure procedure provides for programming 2 keys necessary for the immobilizer to start the car.

- In the "PROG. NEW KEYS" menu, select "ERASING ALL KEYS" e premere **ENTER**.  
The following is displayed:

```
- ERASE ALL KEYS -
It is necessary
to have 2 keys
available
Want to go on?
    YES
    >NO
                                ↑↓ ↻
```

- Select **YES/NO** and press **ENTER**;
- **No**, return to the data entry screen;
- **Yes**, save the entered data;
- Press **ESC** to exit.

The following is displayed:

```
Safety access
procedure

Elapsed time:
XX / max 800 sec
```

At this point, a dialog takes place between the device and the immobilizer control unit that can take up to 800 sec.

If the communication and the data exchange function correctly, the following will eventually be displayed:

```
Safety access
obtained
```

- At this point, the **erase all keys phase** begins.
- After a few seconds, the following is displayed:

```
All keys
have been erased

Please wait
```

- Press any key to continue.

```
COMMUNICATION OK!

Sequentially insert
2 keys, turn each one
to ON position

Press any key...
```

- Press any key to continue.

## SAVING USER DATA

(the sequence of operations is the same as that described on page 7)

### 1.6 NUMBER OF KEYS IN MEMORY

This function is used to display the number of keys stored in the immobilizer's memory. When it is selected, the following is displayed:

```
-NUM.OF KEYS IN MEM.-  
  
  Num. of keys  
  in memory:  
    XX  
  
Press any key...
```

- Press any key to continue.



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