

**SDD**  
SilcaDiagnosticDevice

**SBB**

**SW- FORD<sup>®</sup> EU (SDD/SBB)**

CODE: D431415XA - VERS. 2.0

GB

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# SW- FORD® EU (SDD/SBB)






1




## FORD® EU FUNCTIONS MENU

The functions on these vehicles are:

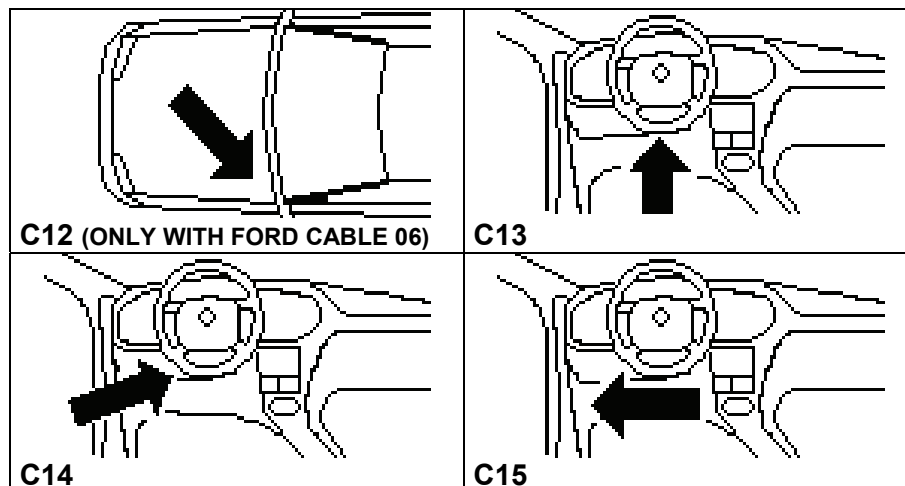
- Programme new keys (max. 8 or 15 keys in the memory);;
- Read IMMO ID;
- Read the errors present;
- Delete all errors.

To make use of this function, use:

	 <p>SWITCH ADAPTER</p>
 <p>CABLE OBDII [03] (STANDARD)</p>	 <p>CABLE FORD [06] (OPTIONAL)</p>
<p>PRG. NEW KEYS</p> <p><b>(A) (I) (L)</b> (1 key is required)</p> <p><b>(B) (D) (E) (G) Master Key System</b> (3 keys are required)</p> <p><b>(C) 3 Keys System</b> (2 keys are required)</p> <p><b>(F)</b> (A number of keys is required)</p> <p><b>(H) Master Key System</b> (2 keys are required)</p>	

SBB	CABLE/ADAPTER
	 <p>CABLE OBD II [00] (STANDARD)</p>
	 <p>CABLE FORD [06] (OPTIONAL)</p>

## WHERE TO FIND THE PLUG DIAGNOSTICS



## SELECTING THE CAR MAKE

In this case SDD/SBB is unable to automatically recognize the various central units connected. To identify the type of communication procedure to launch, identify:

- CAR MODEL
- YEAR OF MANUFACTURE
- DIESEL/PETROL FUELLED
- RED KEY SYSTEM (the new car had one red and 2 black keys [procedures MKD,MKB,MK])
- 2-KEY SYSTEM (the new key had 2 black keys [procedures 2K, 2KD])
- 3-KEY SYSTEM (the new car had 3 black keys [procedure 3KD])

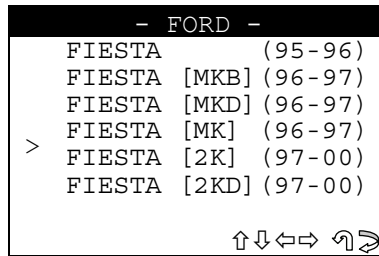
A characteristic of the list of FORD® models is the column containing a legend [IN SQUARE BRACKETS] that identifies the communication procedure for those models which may require a different procedure:

Procedure	System	Notes
[MKB]	Red key	Red key system petrol
[MKD]	Red key	Red key system petrol
[MK]	Red key	Red key system diesel-petrol with procedure different from [MKD, MKB]
[2K]	2 keys	2-key system petrol
[2KD]	2 keys	2-key system diesel
[3KD]	3 keys	3-key system diesel (not used much outside the UK market)
19 [2KD]	2 keys	2-key system models 1.900 cc Turbo diesel
2.3 [2K]	2 keys	2-key system models 2.300 cc Petrol

The most complex case which may take longer to programme is the one with a red key where although the year of manufacturer and fuel type are known (e.g. Diesel) there are two possible procedures: [MK, MKD], **ONLY ONE OF WHICH WILL WORK**. In this case there is no choice but to try them both, which may prolong memorization time if the right one is the second one tried.

For other cases which do not involve red key systems it is very important for the customer to provide the right information (2-3 KEYS SYSTEM, DIESEL, PETROL) so that it can be identified without error.

In any case, if the information is partial or wrong (e.g. the customer cannot say whether a Diesel car has a 2 or 3 key system) it will simply increase the time required for memorization as two procedures will have to be tried ([2KD, 3KD]), **ONLY ONE OF WHICH WILL WORK**.



- Use the arrow keys to select the make, then press **ENTER**. Press **ESC** to quit.

## FUNCTIONS MENU

This section is used to carry out the functions involved, in particular to:

- to memorize new keys in the immobilizer even when all the original keys are missing;
- add new keys in the immobilizer "PROG. NEW KEYS (A)"
- to create a new MASTER key (red key) and two normal keys "PROG. NEW KEYS (B-D-E)"
- erase the code of all keys from the immobilizer memory, provided **at least two being reprogrammed** "PROG. NEW KEYS (A-C)" or reprogrammed three "PROGR. NEW KEYS (B-D-E)"
- check how many keys are in the immobilizer memory;
- erase any anomalies in the immobilizer memory.

**ATTENTION:** the structure of the programming system for FORD® is such that **one or more keys cannot be erased individually from the vehicle.**

## OPERATIONAL NOTES

**ALWAYS USE THE (03) OBDII FORD CABLE; USE THE SPECIFIC (06) CABLE FOR MODELS WITHOUT THE DIAGNOSTICS SOCKET.**

- Use the machine to programme/erase keys from the immobilizer memory only when absolutely necessary, **the programming or deletion procedure may take up to 30 minutes;**
- if possible, use the direct manual programming/deletion procedure described in the HELP F2 menu.

## TRYING TO START A CAR WITH A KEY NOT IN THE MEMORY

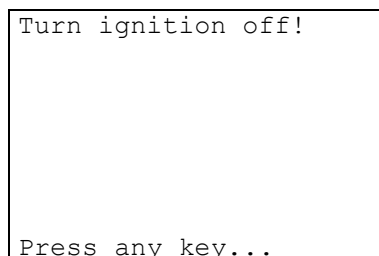
In such cases the immobilizer system protection is activated and the vehicle cannot be started even with enabled keys; in this situation the immobilizer warning light flashes rapidly.

To release the vehicle, place an enabled key into the ignition block and take to the ON position until the immobilizer warning light goes out (the procedure takes a few minutes).

The structure of the FORD® functions menu is as follows:

- There is already a key in the ON position on the ignition unit.

The display will show:



- Turn the key to the OFF position; the display will show:

```

- FORD -
> PROG. NEW KEYS
PRESENT ERRORS
ERRORS RESET
↑↓ ↻

```

```

- FORD -
> PROG. NEW KEYS
No. KEYS MEM.
IMMO ID READING
PRESENT ERRORS
ERRORS RESET
↑↓ ↻

```

```

- FORD -
> PROG.MASTER KEY
No. KEYS MEM.
IMMO ID READING
PRESENT ERRORS
ERRORS RESET
↑↓ ↻

```

- Select and press **ENTER**.

## 1.1 PROGRAMMING NEW KEYS

### 1.1.1 PROGRAMMING NEW KEYS (A) (I) (L)

This function is used to add keys to the immobilizer or erase them.

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

The display will show:

```

PROG.NEW KEYS (A) (I) (L)
> ADD A KEY
NUM.OF MEMORIZED KEY
ERASE ALL KEYS
↑↓ ↻

```

#### 1.1.1.1 ADD KEY

This function is used to add a new key.

- Select "**ADD**" and press **ENTER**; the display will show:

```

- ADD KEY -
Turn ignition on!
↻

```

- Turn the key to the **ON position**.

**ESC** to quit;

**ENTER** to continue.

After a few seconds the display will show:

```

Insert the new key,
turn ignition on!

Press any key...

```

- Insert the **key to be programmed**, turn to the **ON position** and press a key.

The display will show:

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

A dialogue then begins between the device and the immobilizer central unit, which may take up to 800 sec.

If communication and data transfer has taken place successfully, at the end of the operation the display will show:

```
Safety access  
obtained
```

The **key programming stage** will then begin on the vehicle. After a few seconds the following message will appear:

```
KEYS CODING
```

If the key programming stage is successful the following message will appear along with the new amount of keys that has been memorize:

```
Keys number in  
memory:  
XX  
  
Please wait
```

After a few seconds the following message will appear:

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

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

## KEY TESTING

**ATTENTION:** to check that the memorized keys work, test by turning on the car engine. If there are problems, repeat the operation.

## OPERATION ARCHIVES - USER DATA

At the end of the programming operation the display will show:

```
Do you want to save
customer data?

      NO
    >YES

      ↑↓  ↶↷
```

- Select YES/NO and press **ENTER**.
- **No**, to return to the screen showing **IMMOBILIZER functions menu**
- **Yes**, to memorize the data for the operation just completed
- **ESC** to quit.

## USER DATA ARCHIVE

To enter user data the display will show:

```
- USER DATA -
POS.: 001
DATE: 19/07/01
> SURNAME: XXXXXXXXXXXX
NAME: XXXXXXXXXXXX
REG.MO: XXXXXXXXXXXX

      ↑↓↔↶↷
```

- SURNAME (required) (**12 characters**).
  - NAME / NUMBER PLATE (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 Mem.:** Number of keys stored in memory
  - **PIN CODE:** (if storage is confirmed by an operator)
  - **IMMO ID:** Immobilizer control unit ID

To enter the data:

- use the ↑↓ keys to position on the desired item.
- press ↶ to enter and select the field where the text is to be typed.
- Press **ENTER** to confirm.
- Select **ESC** to quit and save the customer data.

```
Is the information
inserted correct?

      NO
    >YES

      ↑↓  ↶↷
```

- Select and press **ENTER**.
- **No**, to return to the data entry screen.
- **Yes**, to save the customer data entered in the archive.
- Select **ESC** to quit.



### 1.1.1.2

#### NUMBER OF KEYS IN MEMORY

This function is used to view the number of keys stored in the immobilizer memory. After selection the display will show:

```
NUM.OF KEYS IN MEM.
Turn ignition on!

Press any key...
```

- Turn the key to the **ON position** and press a key. The display will show:

```
Keys number in
memory:
      XX

Press any key...
```

- Press a key to continue. The display will show:

```
Turn ignition off!

Press any key...
```

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

### 1.1.1.3

#### ERASE ALL KEYS

This function is used to erase all the keys stored in the immobilizer memory. To do this two keys must be memorized.

**ATTENTION:** The procedure for deletion of the memorized keys requires programming of two keys so that the immobilizer can start the vehicle.

- Select the item **"ERASE ALL KEYS"** from the **"PROG. NEW KEYS"** menu and press **ENTER**.

The display will show:

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

- Select YES/NO and press **ENTER**.
- **No**, to return to the data entry screen.
- **Yes**, to store the data entered in the archive.
- **ESC**, to quit.

The display will show:

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

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

The display will show:

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

A dialogue then begins between the device and the immobilizer central unit, which may take up to 800 sec.

If communication and data transfer has taken place successfully, at the end of the operation the display will show:

```
Safety access  
obtained
```

The **deletion of all keys** will then begin.

After a few seconds the display will show:

```
All keys  
has been  
erased  
  
Please wait
```

Key deletion terminated.

The **programming of the 2 keys** in the vehicle then takes place.

After a few seconds, if programming of the **1st key** has taken place successfully, the display will show the message.

```
Keys number in  
memory:  
  
1  
  
Please wait
```

- After a few seconds the display will show:

```

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**, insert the **2nd key** and turn to the **ON position**; do not take more than **10 seconds**.
- Press a key to continue.

The **programming of the 2nd key** in the vehicle then takes place.

After a few seconds, if programming takes place successfully, the display will show the message:

```

Keys number in
memory:

                2

Please wait

```

- After a few seconds the display will show:

```

Turn ignition off!

Press any key...

```

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

## OPERATION ARCHIVES - USER DATA

- (the flow chart is the same as that described on pag. 8)

### 1.1.2

## PROGRAMMING NEW KEYS (B) - MASTER KEY SYSTEM -

This function is used to create a new MASTER key (Red Key).

When a new MASTER KEY is programmed all the previously programmed keys are automatically erased and 3 keys are programmed, one of which is the master key.

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

The display will show:

```

PROG.NEW KEYS (B)
> PROG.MASTER KEY
  No. KEYS MEM.

                                ↑↓ ↻

```

### 1.1.2.1

### PROG. MASTER KEY

This function is used to create a new MASTER key.

**ATTENTION:** The memorization procedure for the master key requires the programming of 3 keys in the central unit. The first of the 3 keys programmed is the MASTER KEY.

- Select "PROG. MASTER KEY" and press ENTER; the display will show:

```
- PROG.MASTER KEY -
You need to have
three keys for
programming.
Do you want to go on?
    >YES
    NO
                                ↑↓ ↻
```

- Select and press **ENTER**.
- **NO**, returns to the previous menu
- **YES**, proceeds with programming
- **ESC** returns to the previous screen

The display will show:

```
Turn ignition on!

Press any key...
```

- Turn the key to the **ON** position and press a key to continue.

After a few seconds the display will show:

```
Safety access
procedure

Elapsed time:
XX / max 560 sec
```

The device and central immobilizer unit then begins a dialogue that could last up to 560 seconds. If communication and data exchange has been successful, the display will show:

```
Security access
obtained
```

After a few seconds the display will show:

```
Turn ignition off
and fit the 3 keys
one after the other,
turning them to the
ON position.
The 1st fitted will
be the master key
Press any key...
```

**The key programming stage** on the car begins at this point. Fit the 3 keys to be programmed one after the other and turn to the **ON** position, making sure to fit first the key that will become the **MASTER KEY**.

Press a key to continue.

```
Check in sequence
that the second and
third keys
programmed start the
car. (DO NOT USE THE
MASTER KEY FOR THIS
TEST) .
Press a key...
```

## KEY TEST

**ATTENTION:** to check that the procedure has been carried out properly, check car ignition using the second and third keys programmed. If one or both of the keys do not start the car, repeat the operation. **Never use the Master key to start the car.**  
Press any key to memorize the User data.

## ARCHIVING OPERATION - USER DATA

(the flow chart is the same as that described on page 8)

### 1.1.2.2 NUMBER OF KEYS IN MEMORY

(the flow chart is the same as that described on chap. 1.1.1.2, pag. 9)

### 1.1.3 PROGRAMMING NEW KEYS (C) - 3 - KEY SYSTEM -

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

- To activate the function, select "**PROG. NEW KEYS**" and press ENTER.  
The display will show:

```
PROG.NEW KEYS (C)
> PROG.KEYS
  No. KEYS MEM.

↑↓ ↻
```

### 1.1.3.1

#### PROGRAMMING KEYS

This function is used to add two operating keys deleting all the previously memorized keys.

- Select "**PROG. KEYS**" and press **ENTER**; the display will show:

```
You need to have  
two keys for  
programming.  
  
➤↵
```

- **ESC** to quit;
- **ENTER** to continue.

```
INSERT THE NEW KEY  
  
TURN IGNITION ON!  
  
Press a key...
```

- Enter the **key to be programmed**, turn to the ON position and press any key.  
The display will show:

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

The device and central immobilizer unit now begin to communicate, which may take up to 800 sec.  
If communication and data exchange has been successful, the display will show:

```
Safety access  
obtained
```

After a few seconds the display will show:

```
Safety access
procedure

Elapsed time:
XX / max 1000 sec
```

The device and central immobilizer unit now begin to communicate, which may take up to 1000 sec. If communication and data exchange has taken place properly, the display will show:

```
Safety access
obtained
```

The **deletion of all keys** will then begin.  
After a few seconds the display will show:

```
All keys
has been
erased

Please wait
```

All the keys has been erased.

**Programming of the 2 keys** in the car now starts.

After a few seconds, if the **1st key** has been programmed successfully, the display will show the message:

```
Keys number in
memory:

          1

Please wait
```

- After a few seconds the display will show:

```
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**, fit the **2nd key** and turn to the **ON position**; all within **10 seconds**.
- Press any key to continue.

The **programming of the 2nd key** in the vehicle then takes place.

After a few seconds, if the key has been programmed successfully, the display will show the message:

```
Keys number in
memory:

                2

Please wait
```

- After a few seconds the display will show:

```
Turn ignition off!

Press any key...
```

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

## KEY TESTING

**ATTENTION:** To check that the memorized keys work, carry out at least 2 tests to start the engine. If the test is negative, repeat the operation.

## ARCHIVING OPERATION - USER DATA

(the flow chart is the same as that described on page 8)

### 1.1.3.2 NUMBER OF KEYS IN MEMORY

(the flow chart is the same as that described on chap. 1.1.1.2, pag. 9).

### 1.1.4 PROGRAMMING NEW KEYS (D) - MASTER KEY SYSTEM -

This function is used to create a new MASTER key (Red Key).

When a new MASTER key is programmed, all the previously programmed keys are automatically erased. 3 keys are programmed, one of which is the master key.

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

The display will show:

```
PROG.MASTER KEY (D)
> PROG.MASTER KEY
  No. KEYS MEM.

                                ↑↓ ↻
```



#### 1.1.4.1 PROG. MASTER KEY

This function is used to create a new MASTER key.

**ATTENTION:** The master key memorizing procedure requires the programming of 3 keys in the central immobilizer unit, the first of which is the MASTER KEY.

- Select "**PROG. MASTER KEY**" and press **ENTER**; the display will show:

```
- PROG.MASTER KEY -
You need to have
three keys for
programming.
Do you want to go on?
  >YES
    NO
                                     ↑↓ ↶ ↷
```

- Select and press **ENTER**.
- **NO**, returns to the previous menu
- **YES**, proceeds with programming
- **ESC** returns to the previous screen

The display will show the message:

```
Insert MASTER key
and TURN ON in
position 1

Press any key...
```

- Turn the key to position 1 (first click on ignition block) and press any key to continue. After a few seconds the display will show:

```
Safety access
procedure

Elapsed time:
XX / max 560 sec
```

The device and central immobilizer unit now start to communicate, which may take up to 560 seconds.

If communication and data exchange has been successful, at the end of the operation the display will show:

```
Safety access
obtained
```

After a few seconds the display will show:

```
Turn ignition off
and fit the 3 keys
one after the other,
turning them to the
ON position.
The 1st fitted will
be the master key
Press any key...
```

Programming of the keys in the car now starts; fit the three keys to be programmed in sequence and turn to the ON position, taking care to fit the MASTER KEY first (the one already in the ignition block).

Press any key to continue.

```
Check in sequence
that the second and
third keys
programmed start the
car. (DO NOT USE THE
MASTER KEY FOR THIS
TEST) .
Press any key...
```

### KEY TESTING

**ATTENTION:** to check that the procedure has been carried out properly, test ignition of the engine by using the second and third keys programmed. If one or both the keys do not start the car, repeat the operation. Never use the master key to start the car.

Press any key to memorize the user data.

### ARCHIVING OPERATION - USER DATA

(the flow chart is the same as that described on page 8)

#### 1.1.4.2 NUMBER OF KEYS IN MEMORY

(the flow chart is the same as that described on chap. 1.1.1.2, pag. 9)

#### 1.1.5 PROGRAMING NEW KEYS (E) - MASTER KEY SYSTEM -

This function is used to create a new MASTER key (Red Key).

When a new MASTER KEY is programmed, all previously programmed keys are automatically erased.

3 keys are programmed, one of which is the master key.

- Select "**PROG. NEW KEY**" and press **ENTER**.

The display will show:

```
PROG.NEW KEYS (E)
> PROG.MASTER KEY
No. KEYS MEM.

↑↓ ↻
```

### 1.1.5.1 PROG. MASTER KEY

This function is used to create a new MASTER key.

**ATTENTION:** The master key memorizing procedure requires programming of 3 keys in the central unit, the first one of which is the MASTER KEY.

- Select "PROG. MASTER KEY" and press **ENTER**; the display will show:

```
- PROG. MASTER KEY -
You need to have
three keys for
programming.
Do you want to go on?
  >YES
    NO
                                     ↑↓ ↶ ↷
```

- Select and press **ENTER**.
- **NO**, returns to the previous menu
- **YES**, proceeds with programming
- **ESC** returns to the previous screen

The display will show the message:

```
Insert MASTER key
and TURN ON in
position 1

Press any key...
```

- Turn the key to position 1 (first click on the ignition block) and press any key to continue.

After a few seconds the display will show:

```
Safety access
procedure

Elapsed time:
XX / max 560 sec
```

The device and central immobilizer unit now start to communicate, which may take up to 560 seconds.

If communication and data exchange has been successful, at the end of the operation the display will show:

```
Safety access
obtained
```

After a few seconds the display will show:

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

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

```
Safety access  
procedure  
  
Elapsed time:  
XX / max 1000 sec
```

The device and central immobilizer unit now start to communicate, which may take up to 1000 seconds. If communication and data exchange has been successful, at the end of the operation the display will show:

```
Safety access  
obtained
```

After a few seconds the display will show:

```
Start the car with  
all 3 keys  
START WITH  
MASTER KEY  
  
Press any key...
```

**Programming of the keys** in the car now starts; fit the three keys to be programmed in sequence and turn on the engine, taking care to fit the MASTER KEY first (the one already in the ignition block).

- Press any key to continue.

### KEY TESTING

**ATTENTION:** to check that the procedure has been carried out properly, test ignition of the engine by using the second and third keys programmed. If one or both the keys do not start the car, repeat the operation. Never use the master key to start the car.

Press any key to memorize the user data.

### ARCHIVING OPERATION - USER DATA

(the flow chart is the same as that described on page 8)

#### 1.1.5.2 NUMBER OF KEYS IN MEMORY

(the flow chart is the same as that described on chap. 1.1.1.2, pag. 9).

### 1.1.6

## PROGRAMMING NEW KEYS (F)

This function is used to add or delete keys in the immobilizer.

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

The display will show:

```
PROG. NEW KEYS (F)

Keys number: Y

N.keys: Y
```

- Enter the **number of keys** to be programmed and press **ENTER**.
- Press **ESC** to quit;
- Press **ENTER** to continue.

The display will show:

```
Safety access
procedure

Elapsed time:
XX / max 800 sec
```

The device and central immobilizer unit now start to communicate, which may take up to 800 seconds. If communication and data exchange has been successful, at the end of the operation the display will show:

```
Safety access
obtained
```

The **key programming stage** will then begin on the vehicle. After a few seconds the following message will appear:

```
COMMUNICATION OK!

Sequentially insert
the keys and turn each
one to the ON position

Press any key...
```

Memorization of the keys in the car will now begin.

- **Insert all the keys to be memorized one after the other, turning each one to the ON position.** If errors occur during programming, the immobilizer warning light (located on the dashboard) will flash rapidly. Repeat the operation.
- Press a key to continue; the display will show:

If the warning light on the console is blinking repeat the procedure because an error with the keys has occurred

Press any key...

### KEY TESTING

**ATTENTION:** to check that the memorized keys work, test by turning on the car engine. If there are problems, repeat the operation.

- Press a key to continue.

### ARCHIVING OPERATIONS - USER DATA

(The flow chart is the same as that described on page 8).

#### 1.1.7 PROGR. MASTER KEY (G)

This function is used to create a new MASTER key (Red Key).

When a new MASTER key is programmed, all the previously programmed keys are automatically deleted. 3 keys are programmed, one of which is the master key.

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

The display will show:

**ATTENTION:** The master key memorizing procedure requires the programming of 3 keys in the central immobilizer unit, the first of which is the MASTER KEY.

**PROG.MASTER KEY (G)**

You need to have three keys for programming.  
Do you want to go on?  
>YES  
NO

↑↓↶↷

- Select **NO/YES** and press **ENTER**.
- **NO**, returns to the previous menu
- **YES**, proceeds with programming
- **ESC** returns to the previous screen

The display will show the message:

Turn ignition on!

Press any key...

Turn the key to the **ON position** and press a key.

After a few seconds the display will show:

```
Safety access
procedure

Elapsed time:
XX / max 600 sec
```

A The device and central immobilizer unit now start to communicate, which may take up to 600 seconds. If communication and data exchange has been successful, at the end of the operation the display will show:

```
Safety access
obtained
```

After a few seconds the display will show:

```
Turn ignition off
and fit the 3 keys
one after the other,
turning them to the
ON position.
The 1st fitted will
be the master key
Press any key...
```

Programming of the keys in the car now starts; fit the three keys to be programmed in sequence and turn to the ON position, taking care to fit the MASTER KEY first (the one already in the ignition block).

Press any key to continue.

```
Check in sequence
that the second and
third keys
programmed start the
car. (DO NOT USE THE
MASTER KEY FOR THIS
TEST) .
Press a key...
```

## KEY TESTING

**ATTENTION:** to check that the procedure has been carried out properly, test ignition of the engine by using the second and third keys programmed. If one or both the keys do not start the car, repeat the operation. Never use the master key to start the car.

Press any key to memorize the user data.

## ARCHIVING OPERATION - USER DATA

(the flow chart is the same as that described on page 8).

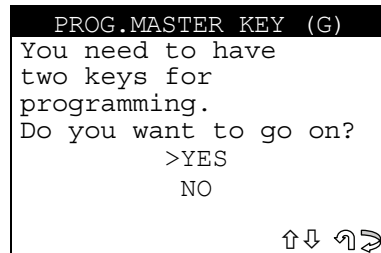
### 1.1.8 PROGRAMMING NEW KEYS (H)

This function is used to add or delete keys in the immobilizer.

- To activate the function select “ **PROG. NEW KEYS** ” and press **ENTER**.

The display will show:

**ATTENTION:** the procedure to memorize the key provides for the programming of at least 2 keys in the centralized unit.



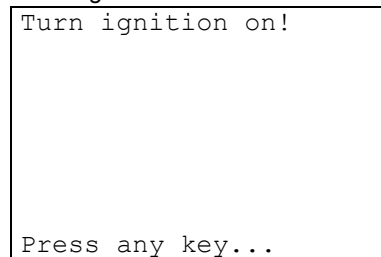
- Select **NO/YES** and press **ENTER**.

- **NO**, to return to the previous menu

- **YES**, to proceed with programming

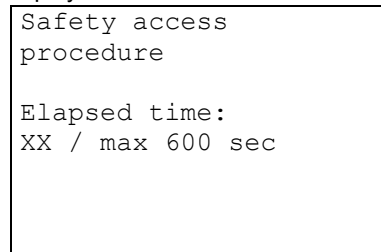
- **ESC** to return to the previous screen

The display will show the message:

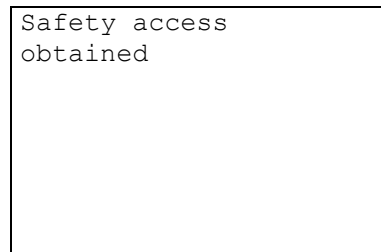


Turn the key to the **ON position** and press any key to continue.

After a few seconds the display will show:



Communication then starts between the device and immobilizer centralized unit and may last up to 600 seconds. If the communication and data exchange have taken place successfully the display will show:





After a few seconds the display will show:

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

Press a key...
```

Programming the keys in the vehicle then takes place.

- Turn the key in the ignition block to the **OFF position** and remove.
- Fit the second key to be programmed into the ignition block and turn to the **ON position**.
- Carry out all these operations within 10 seconds.
- Press any key to continue.

If the two keys has been memorized, the display will show:

```
Keys number in
memory:

n.2

Press any key...
```

If the number of keys memorized is different, repeat the procedure, making sure that the transponders in the keys are the right ones and working properly.

- Press any key to continue.

The display will show:

```
Turn ignition off!

Press any key...
```

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

## KEY TESTING

**ATTENTION:** to check that the memorized keys work, test by turning on the car engine. If there are problems, repeat the operation.

## ARCHIVING OPERATIONS - USER DATA

(the flow chart is the same as that described on page 8)

### 1.2 READ ERRORS

This function is used to check for anomalies in the immobilizer memory. Select then press **ENTER**; the display will show:

```
- ERRORS READING -

Turn ignition on!

Press any key...
```

- Turn the key to the **ON position** and press a key

## NO ERRORS

If there are no anomalies in the memory, after a few seconds the display will show:

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

## ERRORS FOUND

If there are anomalies in the memory, the display will show how many errors (XX) there are in the central unit::

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

Press a key to view a description of the error:

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

- **ERR: XXXXXXXXXXXX** error code.
- Press ↑↓↔⇒ to scroll all the errors found.
- Select **ESC** to quit.
- The display will show:

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

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

## 1.3

### ERASE ERRORS

Select **NO/YES** then press **ENTER**; the display will show:

```
- ERRORS READING -  
Erase  
the active errors:  
  >NO  
  YES  
  
↑↓↔⇒
```

- Select and press **ENTER**.
- **No**, to return to the previous menu.
- **Yes**, to erase the errors in the memory.
- Select **ESC** to quit. The display will show:

```
Turn ignition on!

Press any key...
```

- Turn the key to the **ON position** and press a key. After a few seconds the following message will appear:

```
TERMINATED
ERASING

Press ESC to quit
```

- Select **ESC** to quit. The display will show:

```
Turn ignition off!

Press any key...
```

Turn the key to the **OFF position** and press a key.

## 1.4 NUMBER OF KEYS IN MEMORY

This function is used to view the number of keys memorized in the immobilizer. After selection the display will show:

```
- NUM.KEYS IN MEM. -
Turn ignition on!

Press any key...
```

- Turn the key to the **ON position** and press any key. The display will show:

```
Keys number in
memory:
      XX

Press any key...
```

- Press any key to continue.

The display will show:

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

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

## 1.5 IMMO ID READING

This function is used to view the immobilizer identification (Serial number)

- Select and press **ENTER**, the display will show:

```
- IMMO ID READING -  
XXXXXXXXXX  
  
IMMO XXXXXXXX  
XXXXXXXX XX  
  
Press ESC to quit
```

- Select **ESC** to quit.



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