

**SDD**  
SilcaDiagnosticDevice

**SBB**

**SW- FIAT-ALFA-LANCIA<sup>®</sup> -L0 (SDD/SBB)**

CODE: D431359XA - VERS. 3.0



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# SW- PRG. FIAT-ALFA-LANCIA® -L0 (SDD/SBB)

## 1 SW FIAT-ALFA-LANCIA® - L0





### IMMOBILIZER ALFA-FIAT-LANCIA® BODY COMPUTER CAN BUS (ROUTINE 57)



MODEL	Year from	Year to	Reference	Keys N.	Cable	Pos. Conn.
<b>ALFA ROMEO</b>						
GT[CAN]	2004		ORIGINAL	8	00	C5
147[CAN]	2000		ORIGINAL	8	00	C5
<b>FIAT</b>						
DAILY[CAN]	2000		ORIGINAL	8	00	C5
DOBLO[CAN]	2000		ORIGINAL	8	00	C5
IDEA[CAN]	2003		ORIGINAL	8	00	C5
PALIO[CAN]	2002		ORIGINAL	8	00	C5
PANDA[CAN]	2002		ORIGINAL	8	00	C5
PUNTO[CAN]	1999		ORIGINAL	8	00	C5
STILO[CAN]	2001		ORIGINAL	8	00	C5
<b>LANCIA</b>						
THESIS[CAN]	2002		ORIGINAL	8	00	C5
YPSILON[CAN]	2003		ORIGINAL	8	00	C5

Functions on these vehicles are:

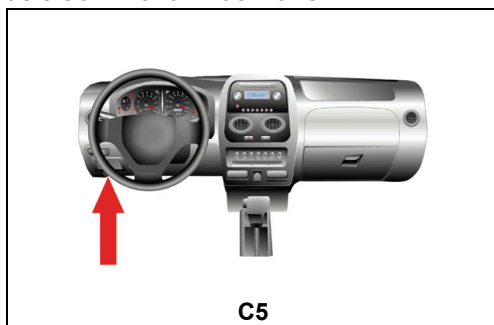
- Add keys and remote controls;
- Erase keys and remote controls;
- Read l'IMMO ID;
- Read errors in the central control unit;
- Delete errors in the central control unit.

The following are needed to use this function:

	 <p><b>SWITCH ADAPTER CAN BUS</b></p>
 <p><b>OBD II CABLE [00]</b></p>	 <p><b>PIN CODE for keys</b></p>
<p><b>ALL KEYS</b></p>	

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

## DIAGNOSIS CONNECTOR POSITIONS



### GENERAL INFORMATION

There are a number of variants of this immobilizer system that SDD/SBB detects automatically. They are identified by an univocal code called ISO.

Simply select from the main menu:

IMMOBILIZER -> (ALFA/FIAT/LANCIA) -> MODEL.

**ATTENTION:** every time programming is carried out all operational and new keys to be used on the vehicle must be re-programmed. Keys (operational) not programmed during the programming operations for new keys will no longer be programmable.

### ELECTRONIC CODE INFORMATION (KEYS PIN CODE)

#### THE ELECTRONIC CODE:

Is a five-digit numerical code on a **CODE CARD** provided with each vehicle. The code is different for each vehicle and is required for programming new keys and emergency ignition. If the code is lost, it can be recovered from any **FIAT/ALFA/LANCIA** dealer by providing the chassis number.

#### EMERGENCY IGNITION (for petrol fuelled engines only):

If the transponder on the key breaks or develops a fault, the engine immobilizer can be cut out by a manual procedure.

Proceed as follows to disable the engine immobilizer:

	1) Turn the ignition key to position "MAR".
	2) Press the accelerator pedal all the way down and hold; the injection warning light will illuminate for about 8 seconds then go out; at this point release the accelerator pedal
	3) The warning light will start to flash: after a number of flashes equal to the first digit of the ELECTRONIC CODE, press and hold down the accelerator pedal until the warning light illuminates (for four seconds) and goes out; at this point release the accelerator pedal.
	4) Proceed as for point 3 for the remaining digits in the ELECTRONIC CODE.
	5) The warning light will flash quickly (for four seconds) to confirm that the operation has been successful.
	6) Turn on the engine by turning the key from position "MAR" to position "AVV" without taking the key to the "STOP" position.

The emergency procedure should be repeated with every ignition.

## 1.1 IMMOBILIZER FUNCTION MENU

Select from the main menu:  
IMMOBILIZER -> (ALFA-FIAT-LANCIA) -> MODEL.

### NEW IMMOBILIZER – SYSTEM NOT RECOGNISED

If during communication the SDD/SBB detects a new immobilizer system not yet developed, the display will show:

```
ECU not recognised
  

ISO: XX.XX.XX.XX.XX
  

Press any key...
```

In such cases communicate the ISO code to Silca.

- Press any key to return to the previous menu.

### IMMOBILIZER RECOGNISED

If communication is successful the display will show:

```
BODY COMPUTER
Comunic. established
ISO received
  

ECU recognised:
B.C. DELPHI
  

Press any key...
```

- Press any key to continue.

```
BODY COMPUTER
> PROG. NEW KEYS
  No.KEYS MEM.
  READ IMMO ID
  READ ERRORS
  DELETE ERRORS
  

↔↑↓↻
```

- Select and press **ENTER**.

## 1.2 PROG. NEW KEYS MENU

This function is used to Programmed/Erase keys and remote controls. With every programming operation all the keys to be used on the vehicle must be re-programmed. Keys (operational) not programmed during this operation will no longer be programmable.

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

```
PROG.NEW KEYS
ATTENTION!!
All available keys
must be memorized.
Max 8 keys.

Press any key...
```

- Press any key to continue.

```
PROG.NEW KEYS
Keys not memorized
during this operation
will be erased and
never again usable!!

Press any key...
```

- Press any key to continue.

```
PROG. NEW KEYS
No keys can be
programmed without the
ELECTRONIC CODE.

(ESC) ↵
```

To programme keys you must have the ELECTRONIC CODE, a secret number of 5 digits, found on the FIAT CODE CARD. If the FIAT CODE CARD is lost the code can be obtained directly from a FIAT dealer by communicating the chassis number.

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

If errors have occurred during communication the display will show a msg [ERROR 15] or [ERROR 16] (see Ch. 5 ERROR MESSAGES / ERROR WARNINGS).

If communication is successful the display will show:

```
- DATA ENTRY -
ELECTRONIC CODE: XXXXX

↵
```

- Press **ESC** to quit.
- Enter the **ELECTRONIC CODE**.
- Press **ENTER** to continue.

If a wrong code is entered or if errors occur during communication, the display will show a msg [ERROR 01] or [ERROR 02] or [ERROR 04] (see Ch. WARNING/ERROR MESSAGES in the User's Manual).

If the code and key to be memorized are correct, the display will show:

```

PROG. NEW KEYS
KEY N°1:
Successfully acquired

Press any key...

```

If errors have occurred during communication the display will show a msg [ERROR 07] or [ERROR 08] or [ERROR 09] or [ERROR 10] or [ERROR 11] (see Ch. 5 ERROR MESSAGES / ERROR WARNINGS).

- Press any key to continue.

```

PROG. NEW KEYS
Do you want to
memorize other keys
> YES
NO

Keys in Mem. : 1
↔↔↑↓(ESC)↵

```

- Select **YES/NO** and press **ENTER**.
- **No**, go to the **END OF PROGRAMMING** section.
- **Yes**, proceed with programming another key.
- **ESC** to quit.

#### SELECT "YES" TO PROGRAMME ANOTHER KEY

```

PROG. NEW KEYS
Insert key N° 2

Turn the ignition on!

Press any key...

```

- Remove the key in the unit;
- Fit the new key to be programmed into the unit;
- Turn the key to the **ON** position;
- Press any key to continue.

```

PROG. NEW KEYS
KEY N° 2:
Successfully acquired

Press any key...

```

If errors have occurred during communication the display will show a msg [ERROR 07] or [ERROR 08] or [ERROR 09] or [ERROR 10] or [ERROR 11] (see Ch. 5 ERROR MESSAGES / ERROR WARNINGS).

- Press any key to continue.

```

PROG. NEW KEYS
Do you want to
memorize other keys?

> YES
NO

Keys in Mem.: 1
↔↔↑↓(ESC)↵

```

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

- **No**, go to the **END OF PROGRAMMING** section.
- **Yes**, proceed with programming another key.
- **ESC** to quit.

### SELECT "NO" END OF PROGRAMMING

If errors have occurred during communication the display will show a msg [ERROR 12] or [ERROR 13] (see Ch. 5 ERROR MESSAGES / ERROR WARNINGS).

If no errors have occurred during programming the display will show:

```

PROG. NEW KEYS
Key memorized
executed

Enabled keys:  n
Disabled keys: m

Press any key...
```

This display summarises the following data:

ENABLED KEYS: N (numero number of keys currently enabled for operation).

DISABLED KEYS: M (number of keys erased and therefore disabled for operation). **THESE KEYS CAN NO LONGER BE MEMORIZED.**

- Press any key to continue.

```

PROG. NEW KEYS
Enabled key ID

1:xxxxxxxx 2:xxxxxxxx
3:xxxxxxxx 4:xxxxxxxx
5:xxxxxxxx 6:xxxxxxxx
7:xxxxxxxx 8:xxxxxxxx

Press any key...
```

This display summarises all the **ID**, that is to say transponder identification codes on the keys just programmed.

Use the RW2/RW3 identification function to view the codes.

- Press any key to continue.

```

PROGRAMME RKE
Any remote controls to
be programmed?

> NO
  YES

↔↔↑↓(ESC)↔
```

- Select **YES/NO** and press **ENTER**.
- **No**, go to **USER DATA ARCHIVE**.
- **Yes**, proceed with programming the remote controls.
- **ESC** to quit.

### PROGRAMMING REMOTE CONTROLS

```

PROGRAMME RKE
ATTENTION!!
All available remote
controls must be
memorized.
Max. 8 RCs.

Press any key...
```

- Press any key to continue.



```

PROGRAMME RKE
Turn key to STOP.

Press any key...

```

- Turn the key to the STOP position (and keep in this position).
- Press any key to continue.

```

PROGRAMME RKE

Press any key on the
remote control!

```

- Press any key on the remote control to be programmed (within 15 seconds).

If errors have occurred during programming the display will show a msg [ERROR 14] (see Ch. 5 ERROR MESSAGES / ERROR WARNINGS).

If the remote control has been properly programmed and no errors have occurred during communication, the display will show:

```

PROGRAMME RKE
Any more remote
controls to be
memorized?
    > YES
        NO
RCs. in memory.    : 1
                  ⏪⏩⏴⏵(ESC)⏴

```

- Select **YES/NO** and press **ENTER**;
- **No**, go to **END OF PROGRAMMING**;
- **Yes**, proceed with programming the remote controls;
- **ESC** to quit.

#### SELECT "YES" – PROGRAMMING OTHER REMOTE CONTROLS

- Press any key to continue.

```

PROGRAMME RKE

Press any key on the
remote control!

```

- Press any key on the remote control to be programmed (within 15 seconds).

If errors have occurred during programming the display will show a msg [ERROR 14] (see Ch. 5 ERROR MESSAGES / ERROR WARNINGS).

If the remote control has been properly programmed and no errors have occurred during communication, the display will show:

```

PROGRAMME RKE
Any more remote
controls to be
memorized?
    > YES
        NO
RCs. in memory.    : 2
                  ⏪⏩⏴⏵(ESC)⏴

```

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

- **No**, go to **END OF PROGRAMMING**;
- **Yes**, proceed with **PROGRAMMING OTHER REMOTE CONTROLS**;
- **ESC** to quit.

#### SELECT "NO" – END OF PROGRAMMING

```

PROGRAMME RKE
Remote control
memorization
successful

Enabled RCs: n

Press any key...

```

- Press any key to continue.

```

PROGRAMME RKE
ID enabled RCs

1:xxxxxxxx 2:xxxxxxxx
3:xxxxxxxx 4:xxxxxxxx
5:xxxxxxxx 6:xxxxxxxx
7:xxxxxxxx 8:xxxxxxxx

Press any key...

```

This display summarises all the **ID**, that is to say the identification codes for the remote controls just programmed.

```

PROGRAMME RKE

Turn the key to ON

Press any key...

```

- Turn the key to the **ON** position.
- Press any key to continue.

#### OPERATIONS ARCHIVE – USER DATA

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

```

File the data for the
completed operation?

NO
>YES

↶ ↑ ↓ ➤

```

- Select **YES/NO** and press **ENTER**;
- No, return to the **IMMOBILIZER FUNCTIONS** menu;
- Yes, proceed with memorizing the data for the completed operation;
- Press **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. No.:XXXXXXXXXXXX

                ↑↓⇒(ESC)↵
```

- SURNAME (required) (**12 characters**);
- NAME / REG. No. (optional) (**12 characters**).

The following data will be saved automatically:

- **POS.**: Position where the datum will be saved;
- **DATE**: Date of the operation;
- **MAKE**: Make of vehicle for which memorization has been carried out;
- **MODEL**: Vehicle for which memorization has been carried out;
- **YEAR**: of the model;
- **Keys Mem.**: Number of keys memorized;
- **PIN CODE**: (if memorization is confirmed by operator);
- **IMMO ID**: Immobilizer identification.

To enter the data:

- use the ↑↓ keys to move to the required item.
- press ⇒ to enter and select the field in which to enter the text.
- Press **ENTER** to enter the data.

NOTE: to select the required letter press the corresponding key N times.

### Glossary:

⇐ : Delete the character to the left of the cursor

1 : space ? ! - , . / & 1

2 : A B C 2 à Ä á â ÷ Ç Æ

3 : D E F 3 è È ë ê

4 : G H I 4 ì Í í

5 : J K L 5

6 : M N O 6 ò ó ô õ Ñ

7 : P Q R S 7 ß

8 : T U V 8 ù ü û ú

9 : W X Y Z 9

0 : 0

Select and press **ENTER**

Press **ESC** to quit and memorize the data.

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

```

Are the data you have
entered correct?
        NO
        >YES

                ↑↓⇒↵
```

- **No**, return to the data entry screen.
- **Yes**, the data entered are filed.

### 1.3 NUMBER OF KEYS MEMORISED

This function is used to view the number of keys memorized in the immobilizer.

- To activate the function, select “**No. KEYS MEM.**” and press **ENTER**.

```
Number of keys in
memory:
                XX

                Press any key...
```

- Press any key to return to the **IMMOBILIZER FUNCTIONS** menu.

### 1.4 READING IMMO ID

This function is used to view the immobilizer identification (**IMMO ID**).

- To activate the function, select “**IMMO ID**” and press **ENTER**, the display will show:

```
- IDENTIFICATION -
ISO:      40.83.83.19.34
NUMDIS:   46774361
NUMHW:    510110030
RELHW:    8
NUMSW:    805110020
RELSW:    0.39
```

Press the “**ARROW DOWN**” key to continue.

```
- IDENTIFICATION -
ISO:      0000000000
DATE:    27/05/1999

                ↑↓ (ESC)
```

- Press **ESC** to quit.

### 1.5 ERROR READING

This function is used to check for any anomalies memorized in the immobilizer.

- To activate the function select “**ERROR READING**” and press **ENTER**.

The display will show:

**NO ERRORS FOUND**

If no anomalies have been memorized, after a few seconds the display will show:

```
- ERROR READINGS -

                NO ERROR
                FOUND

                Press any key...
```

## ERRORS FOUND

If anomalies have been memorized, the display will show the number of errors (XX) memorized in the central control unit:

```
- ERROR READINGS -  
  
XX  
Errors  
found  
  
Press any key...
```

- Press any key to continue.

```
- ERROR READINGS -  
Select code for error  
involved and press  
ENTER to see a  
description.  
  
Press any key...
```

- Press any key to continue.

```
- ERROR READINGS -  
> U1601  
  B1008  
  B1009  
  
↔↔↑↓(ESC)↔
```

- Select the code for the error involved and press **ENTER** to see a description.
- Select **ESC** to quit.

## 1.6 DELETE ERRORS

This function is used to **DELETE** any anomalies memorized in the immobilizer.

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

```
- DELETE ERRORS -  
Delete errors  
found:  
      >NO  
      YES  
  
↑↓↔
```

- Select and press **ENTER**;
- **No**, to back to previous menu;
- **Yes**, proceed with deleting the errors in the memory;
- **ESC** to quit.

The display will show:

```
DELETION  
COMPLETED  
  
Press ESC to quit
```

- Select **ESC** to quit.






## 2 IMMOBILIZER ALFA-FIAT-LANCIA ELECTRONIC KEY (ROUTINE 58)

MODEL	Year from	Year to	Reference	Keys N.	Cable	Pos. Conn.
<b>ALFA ROMEO</b>						
156	1998	2001	ORIGINAL	8	00	C5
156	2001	2003	ORIGINAL	8	00	C5
156	2003		ORIGINAL	8	00	C5
156 Sport Wagon	2000	2001	ORIGINAL	8	00	C5
156 Sport Wagon	2001		ORIGINAL	8	00	C5
166	1998	2004	ORIGINAL	8	00	C5
166	2004		ORIGINAL	8	00	C5
<b>FIAT</b>						
DUCATO	2002		ORIGINAL	8	00	C5
MULTIPLA	1998		ORIGINAL	8	00	C5
SEICENTO	2000		ORIGINAL	8	00	C5
<b>LANCIA</b>						
LYBRA	1999		ORIGINAL	8	00	C5

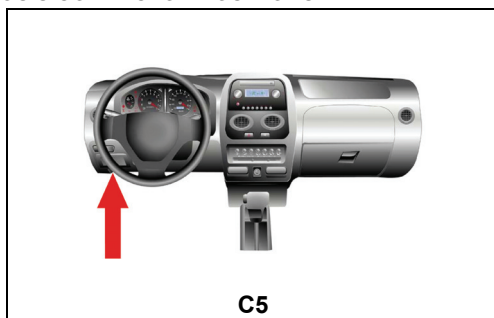
Functions on these vehicles are:

- Add keys;
- Erase keys;
- Read IMMO ID;
- Read errors in the central control unit;
- Delete errors in the central control unit;

The following are needed to use this function:

	 <p><b>SWITCH ADAPTER</b></p>
 <p><b>OBD II CABLE [00]</b></p>	 <p><b>PIN CODE for keys</b></p>
<b>ALL KEYS</b>	
<b>SBB</b>	<b>CABLE/ADAPTER</b>
	 <p><b>CABLE OBD II [00] (STANDARD)</b></p>

## DIAGNOSIS CONNECTOR POSITIONS



### GENERAL INFORMATION:

There are a number of variants of this immobilizer system that are automatically recognized by SDD/SBB. Such variants are identified by the univocal code ISO.

Simply select from the main menu:

IMMOBILIZER->( ALFA/FIAT/LANCIA) -> MODEL

**ATTENTION: every time programming is carried out all operational and new keys to be used on the vehicle must be re-programmed. Keys (operational) not programmed during the programming operations for new keys will no longer be programmable.**

### ELECTRONIC CODE INFORMATION






#### THE ELECTRONIC CODE:

The ELECTRONIC CODE is a five-digit numerical code on a CODE CARD provided with each vehicle. The code is different for each vehicle and is required for programming new keys and emergency ignition. If the code is lost, it can be recovered from any **FIAT/ALFA/LANCIA** dealer by providing the chassis number.

#### EMERGENCY IGNITION (for petrol fuelled engines only):

If the transponder on the key breaks or develops a fault, the engine immobilizer can be cut out by a manual procedure.

Proceed as follows to disable the engine immobilizer:

	1) Turn the ignition key to position "MAR".
	2) Press the accelerator pedal all the way down and hold; the injection warning light will illuminate for about 8 seconds then go out; at this point release the accelerator pedal.
	3) The warning light will start to flash: after a number of flashes equal to the first digit of the ELECTRONIC CODE, press and hold down the accelerator pedal until the warning light illuminates (for four seconds) and goes out; at this point release the accelerator pedal.
	4) Proceed as for point 3 for the remaining digits in the ELECTRONIC CODE.
	5) The warning light will flash quickly (for four seconds) to confirm that the operation has been successful.
	6) Turn on the engine by turning the key from position "MAR" to position "AVV" without taking the key to the "STOP" position.

The emergency procedure should be repeated with every ignition.

## 2.1 IMMOBILIZER FUNCTIONS MENU

Select from the main menu:  
IMMOBILIZER ->(ALFA/FIAT/LANCIA) ->MODEL.

### NEW IMMOBILIZER – SYSTEM NOT RECOGNISED

If during communication the SDD/SBB detects a new immobilizer system not yet developed, the display will show:

```
ECU not recognised
ISO: XX.XX.XX.XX.XX
Press any key...
```

In such cases communicate the ISO code to Silca.

- Press any key to return to the previous menu.

### IMMOBILIZER RECOGNISED

If communication is successful the display will show:

```
C.E. MARELLI CODE 2
Communic. established
ISO received
ECU recognised:
B.C. MARELLI
Press any key...
```

- Press any key to continue.

```
C.E. MARELLI CODE 2
> PROG. NEW KEYS
  No. KEYS MEM.
  READ IMMO ID
  READ ERRORS
  DELETE ERRORS
↔↑↓↻
```

- Select and press **ENTER**.

## 2.2 PROG. NEW KEYS MENU

This function is used to Programme / Erase keys. With every programming operation all the keys to be used on the vehicle must be re-programmed.

**Keys (operational) not programmed during this operation will no longer be programmable.**

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

```
PROG. NEW KEYS
ATTENTION!!
All available keys
must be memorized.
Max 8 keys.
Press any key...
```

- Press any key to continue.



```

PROG. NEW KEYS
Keys not memorized
during this operation
will be erased and
never again usable!!

Press any key...

```

- Press any key to continue.

```

PROG. NEW KEYS
No keys can be
programmed without the
ELECTRONIC CODE.

(ESC)

```

To programme keys you must have the ELECTRONIC CODE, a secret number of 5 digits, found on the FIAT CODE CARD.

If the FIAT CODE CARD is lost the code can be obtained directly from a FIAT dealer by communicating the chassis number.

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

```

- DATA ENTRY -

ELECTRONIC CODE: XXXXX

(ESC)

```

- Press **ESC** to quit.
- Enter the **ELECTRONIC CODE**.
- Press **ENTER** to continue.

If the wrong CODE has been entered or errors have occurred during communication, the display will show a msg [ERROR 01] or [ERROR 02] or [ERROR 04] (see Ch. ERROR MESSAGES in the Operating Manual).

If the code and key to be memorized are correct, the display will show:

```

PROG. NEW KEYS

KEY N°1:
Successfully acquired

Press any key...

```

If errors have occurred during communication the display will show a msg [ERROR 07] or [ERROR 08] or [ERROR 09] or [ERROR 10] or [ERROR 11] (see Ch. 5 ERROR MESSAGES / ERROR WARNINGS).

- Press any key to continue.

```

PROG. NEW KEYS
Do you want to
memorize other keys?
> YES
No

Keys in Mem. : 1
↔↔↑↓(ESC)

```

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

- **No**, go to the **END OF PROGRAMMING** section;
- **Yes**, proceed with programming another key;
- **ESC** to quit.

#### SELECT "YES" TO PROGRAMME ANOTHER KEY

```
PROG. NEW KEYS
Insert key N° 2

Leave the key in the
STOP position.

Press any key...
```

- Remove the key from the unit.
- Insert the new key to be programmed into the unit.
- **DO NOT TURN the key to the ON position.**
- Press any key to continue.

```
PROG. NEW KEYS
KEY N°2:
Successfully acquired

Press any key...
```

If errors have occurred during communication the display will show a msg [ERROR 07] or [ERROR 08] or [ERROR 09] or [ERROR 10] or [ERROR 11] (see Ch. 5 ERROR MESSAGES / ERROR WARNINGS).

- Press any key to continue.

```
PROG. NEW KEYS
Do you want to
memorize other keys?
  > YES
    NO

Keys in Mem. : 2
↔↔↑↓(ESC)↔
```

- Select **YES/NO** and press **ENTER**;
- **No**, go to **END OF PROGRAMMING**;
- **Yes**, proceed with programming another key;
- **ESC** to quit.

#### SELECT "NO" END OF PROGRAMMING

If errors have occurred during communication the display will show a msg [ERROR 12] or [ERROR 13] (see Ch. 5 ERROR MESSAGES / ERROR WARNINGS).

If no errors have occurred during programming the display will show:

```
PROG. NEW KEYS
Key memorized.

Enabled keys:  n

Press any key...
```

This display summarises the following data:

ENABLED KEYS: N (number of keys currently enabled for operation).

- Press any key to continue.

```

Turn on the control
panel!

Press any key...

```

- Turn the key to the **ON** position.
- Press any key to continue.

```

- DATA ENTRY -

ELECTRONIC CODE: XXXXXX

(ESC)

```

- Press **ESC** to quit.
- Enter the **ELECTRONIC CODE**.
- Press **ENTER** to continue.

If a wrong code has been entered or errors have occurred during communication, the display will show a msg [ERROR 01] or [ERROR 02] or [ERROR 04] (see Ch. WARNING/ERROR MESSAGES in the User's Manual).

If the code is the right one and no errors have occurred during communication, the display will show:

```

PROG. NEW KEYS
ID keys enabled
1:xxxxxxxx 2:xxxxxxxx
3:xxxxxxxx 4:xxxxxxxx
5:xxxxxxxx 6:xxxxxxxx
7:xxxxxxxx 8:xxxxxxxx
Press any key...

```

This display summarises all the **ID**, that is to say transponder identification codes on the keys just programmed.

Use the RW2/RW3 identification function to view the codes.

- Press any key to continue.

## OPERATIONS ARCHIVE – USER DATA

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

```

File the data for the
completed operation?

NO
>YES

↶ ↑ ↓ ➤

```

- Select **YES/NO** and press **ENTER**;
- **No**, return to the **IMMOBILIZER FUNCTIONS** menu;
- **Yes**, proceed with memorizing the data for the completed operation;
- **ESC** to quit.

## USER DATA ARCHIVE

To enter the user data, the display will show:

```

-  USER DATA  -
POS.      :001
DATE      :19/07/01
>SURNAME  :XXXXXXXXXXXX
NAME      :XXXXXXXXXXXX
REG. No.  :XXXXXXXXXXXX

                ↑↓⇒(ESC)↵
```

- SURNAME (required) (**12 characters**);
- NAME / REG. No. (optional) (**12 characters**).

The following data will be saved automatically:

- **POS.**: Position where the datum will be saved;
- **DATE**: Date of the operation;
- **MAKE**: Make of vehicle for which memorization has been carried out;
- **MODEL**: Vehicle for which memorization has been carried out;
- **YEAR**: of the model;
- **Keys Mem.**: Number of keys memorized;
- **PIN CODE**: (if memorization is confirmed by operator);
- **IMMO ID**: Immobilizer identification.

To enter the data:

- use the ↑↓ keys to move to the required item.
- press ⇒ to enter and select the field in which to enter the text.
- Press **ENTER** to enter data.

NOTE: to select the required letter press the corresponding key N times.

### Glossary:

- ⇐ : Delete the character to the left of the cursor
- 1 : space ? ! - , . / & 1
- 2 : A B C 2 à Ä á â Ç Æ
- 3 : D E F 3 è È ë ê
- 4 : G H I 4 ì Í î í
- 5 : J K L 5
- 6 : M N O 6 ò ö ô ó Ñ
- 7 : P Q R S 7 ß
- 8 : T U V 8 ù ü ú ú
- 9 : W X Y Z 9
- 0 : 0

Press **ENTER** to confirm.

Press **ESC** to quit and memorize the data.

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

```

Are the data you have
entered correct?
      NO
    >YES

                ↑↓⇒↵
```

- **No**, return to the data entry screen.
- **Yes**, the data entered are filed.

## 2.3 NUMBER OF KEYS MEMORISED

This function is used to view the number of keys memorized in the immobilizer.

- To activate the function, select "No. KEYS MEM" and press ENTER.

```
Number of keys in
memory:

XX

Press any key...
```

- Press any key to return to the **IMMOBILIZER FUNCTIONS** menu.

## 2.4 READING IMMO ID

This function is used to view the immobilizer identification (**IMMO ID**).

Select "IMMO ID" and press **ENTER**, the display will show:

```
- IDENTIFICATION -
ISO:      40.83.83.19.34
DIS NUM:  47743610
RELSW:    V4
RELHW:    1599A
NUM.SERIALE: 00059
DATE :    17/11/02
ESC
```

- Press **ESC** to quit.

## 2.5 ERROR READING

This function is used to check for any anomalies memorized in the immobilizer.

- To activate the function select "**ERROR READING**" and press **ENTER**.

The display will show:

### **NO ERRORS FOUND**

If no anomalies have been memorized, after a few seconds the display will show:

```
- ERROR READINGS -

NO ERROR
FOUND

Press any key...
```

### **ERRORS FOUND**

If anomalies have been memorized, the display will show the number of errors (XX) memorized in the central control unit:

```
- ERROR READINGS -

XX
ERRORS
FOUND

Press any key...
```

- Press any key to continue.

```

- ERROR READINGS -
Select code for error
involved and press
ENTER to see a
description.

Press any key...

```

- Press any key to continue.

```

- ERROR READINGS -
> U1601
  B1008
  B1009

↔↔↑↓(ESC)↔

```

- Select the code for the error involved and press **ENTER** to see a description.
- Select **ESC** to quit.

## 2.6 DELETE ERRORS

This function is used to **DELETE** any anomalies memorized in the immobilizer.

- activate the function, select “**DELETE ERRORS**” and press **ENTER**.

```

- DATA ENTRY -
ELECTRONIC CODE: XXXXX

↶ ↷

```

- Press **ESC** to quit.
- Enter the **ELECTRONIC CODE**.
- Press **ENTER** to continue.

If a wrong code has been entered or errors have occurred during communication, the display will show a msg [ERROR 01] or [ERROR 02] or [ERROR 04] (see Ch. WARNING/ERROR MESSAGES in the User’s Manual).

If the code is correct the display will show:

```

DELETION
COMPLETED

Press ESC to quit

```

- Select **ESC** to quit.




### 3 REMOTE CONTROLS ALFA-FIAT-LANCIA ELECTRONIC KEY (ROUTINE 20)



MODEL	Year from	Year to	Reference	Keys N.	Cable	Pos. Conn.
<b>ALFA ROMEO</b>						
156	1998		ORIGINAL	8	00	C5
156 Sport Wagon	1998		ORIGINAL	8	00	C5
166	1998		ORIGINAL	8	00	C5
<b>FIAT</b>						
DUCATO [RST]	2002		ORIGINAL	8	00	C5
MULTIPLA	1998		ORIGINAL	8	00	C5
<b>LANCIA</b>						
LYBRA	1999		ORIGINAL	8	00	C5

The functions for these vehicles are:

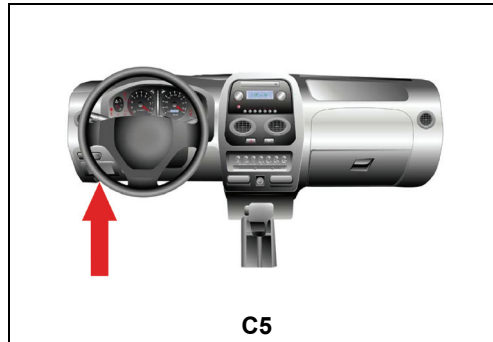
- Add remote controls
- Delete remote controls
- Read IMMO ID
- Read Errors in the central control unit
- Delete Errors in the central control unit

The following are needed to use this function:

	 <b>SWITCH ADAPTER</b>
 <b>OBD II CABLE [00]</b>	<b>REMOTE CONTROL PROGRAMMING PASSWORD</b>
<b>ALL REMOTE CONTROLS</b>	

SBB	CABLE/ADAPTER
	 <b>CABLE OBD II [00] (STANDARD)</b>

## DIAGNOSIS CONNECTOR POSITIONS



### GENERAL INFORMATION

There are a number of variants of this immobilizer system that are automatically recognized by SDD/SBB. Such variants are identified by the univocal code ISO.

Simply select from the main menu:

REMOTE CONTROL -> (ALFA/FIAT/LANCIA) -> MODEL

**ATTENTION: Remote controls cannot be added to vehicles using an original anti-theft system, i.e. installed by the manufacturer of the vehicle (FIAT, ALFAROMEIO, LANCIA).**

### INFORMATION ON REMOTE CONTROL PROGRAMMING PASSWORD

The REMOTE CONTROL PROGRAMMING PASSWORD is a numerical code of six digits. The code is different from vehicle to vehicle and is required for programming new remote controls. It can be obtained from a FIAT/ALFA/LANCIA dealer by providing the chassis number.

**ATTENTION: the password for programming remote controls is not the electronic code used for programming keys!**

## 3.1 REMOTE CONTROL FUNCTIONS MENU

From the main menu select:

REMOTE CONTROLS -> (ALFA/FIAT/LANCIA) -> MODEL

### NEW IMMOBILIZER - SYSTEM NOT KNOWN

If during communication SDD/SBB detects a new immobilizer system not yet developed, the display will show:

```
ECU not recognised
ISO: XX.XX.XX.XX.XX
Press any key...
```

In such cases, communicate the ISO code to Silca.

- Press any key to return to the previous menu.

### KNOWN IMMOBILIZER

If communication takes place properly, the display will show:

```
ALARM/RECEIVER RF
Comunic. established
ISO received
ECU recognised:
A/R RF VAS 97/3
Press any key...
```

- Press any key to continue.



```
A/R RF VAS 97/3
>IDENTIFICATION
PROGRAMME RKE
READ ERRORS
DELETE ERRORS

↔↑↓ (ESC) ↵
```

- Select and press **ENTER**.

### 3.2 PROGRAMME REMOTE CONTROLS

This function is used to add remote controls.

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

If an original anti-theft system is detected, i.e. installed by the vehicle manufacturer (FIAT, ALFA ROMEO, LANCIA), the following message appears and the remote control cannot be programmed. Consult an authorized dealer.

```
PROGRAMME RKE
Warning! The presence
of the Manufacturer
alarm does not allow
for the programming.

Press any key...
```

- Press any key to return to the previous menu.

If the vehicle does not have an original anti-theft system, the display will show:

```
- DATA ENTRY -

PASSWORD : XXXXX

(ESC) ↵
```

- Press **ESC** to quit.

Enter the remote control programming password (if the first digit of the password is a zero, enter the password without the zero).

#### **EXAMPLE**

Password released by dealer: 011541

Password to enter in SDD/SBB: 11541

- Press **ENTER** to continue.

```

PROGRAMME RKE

Press any key on the
remote control!

```

- Press any key on the remote control to be programmed.
- If the password entered is incorrect, the display will show:

```

PROGRAMME RKE

Learning failed!
La entered Password
is wrong.

Press any key...

```

- Press any key to return to the previous menu.

If errors have been made during programming, the display will show msg [ERROR 17] or [ERROR 18] or [ERROR 19] or [ERROR 20] (see Ch. 5 ERROR MESSAGES / ERROR WARNINGS).

If the password entered is correct and no errors have occurred during programming, the display will show:

```

PROGRAMME RKE

REMOTE CONTROL N° X

Press any key...

```

- Press any key to continue.

```

PROGRAMME RKE

Do you want to code
any more Remote
Controls?
  > YES
    NO
Rem-ctrl alr.acquired:X
      ↵↶↷↸(ESC)↹

```

- Select **YES/NO** and press **ENTER**.
- **Yes**, proceed with programming another key.
- **No**, go to **END OF PROGRAMMING**.
- **ESC** to quit.

#### SELECTING "NO" END OF PROGRAMMING

```

PROGRAMME RKE

Remote controls
memorization executed

Enabled rem-ctrl: n

Press any key...

```

Remote control programming is finished. The display will show the number of remote controls enabled.

- Press any key to continue.

### 3.3 READING IMMO ID

This function is used to view the immobilizer **ID (IMMO ID)**.

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

```
- IDENTIFICATION -
ISO:      40.83.83.19.34
DIS NUM:  47743610
RELSW:    V4
RELHW:    1599A
NUM.SERIALE: 00059
DATE :    17/11/02
                        ESC
```

- **ESC** to quit.

### 3.4 READING ERRORS

This function is used to check for any anomalies memorized in the immobilizer.

- To activate the function select **"READING ERRORS"** and press **ENTER**.

The display will show:

#### NO ERRORS FOUND

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

```
ERRORS READING
NO ERROR
FOUND
Press any key...
```

#### ERRORS FOUND

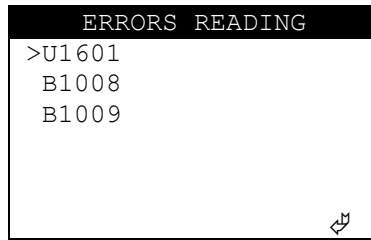
If there are anomalies memorized the display will show how many errors (XX) there are in the central control unit:

```
ERRORS READING
XX
ERRORS
FOUND
Press any key...
```

- Press any key to continue.

```
ERRORS READING
Select code for error
involved and press
ENTER to see a
description
Press any key...
```

- Press any key to continue.

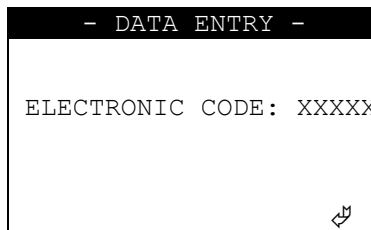


- Select the error code involved and press **ENTER** to view a description.
- Select **ESC** to quit.

### 3.5 DELETE ERRORS

This function is used to **DELETE** any anomalies memorized in the immobilizer.

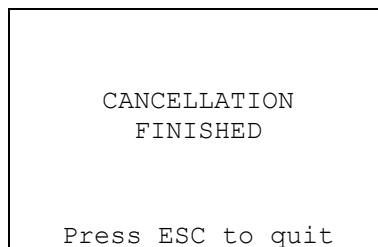
- To activate the function, select "**DELETE ERRORS**" and press **ENTER**.



- Press **ESC** to quit.
- Enter the **ELECTRONIC CODE**.
- Press **ENTER** to continue.

If a wrong CODE has been entered or if errors have occurred during communication, the display will show msg [ERROR 01] or [ERROR 02] or [ERROR 04] (see Ch. WARNING/ERROR MESSAGES in the User's Manual).

- If the code is correct the display will show:



- Select **ESC** to quit.





#### 4 IMMOBILIZER FIAT / PSA (ROUTINE 12)



MODEL	Year from	Year to	Reference	Key Nr.	Cable	Pos. Conn.
<b>FIAT</b>						
ULISSE [BSI]	2002		ORIGINAL	8	00	C5
<b>LANCIA</b>						
PHEBRA [BSI]						
156	2002		ORIGINAL	8	00	C5

Functions on these vehicles are:

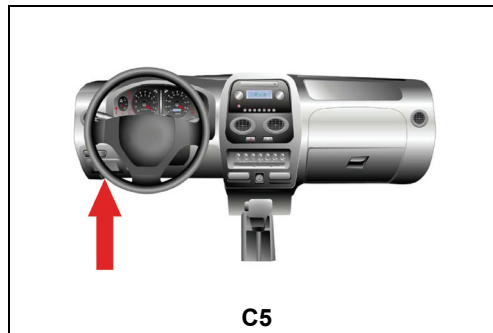
- Programme new keys (Max. No. operational keys = 5);
- Add and/or erase remote controls;
- Read Nr. of keys memorized;
- Read IMMO ID;
- Read errors;
- Delete errors.

The following are needed to use this function:

	 <p><b>SWITCH ADAPTER</b></p>
 <p><b>OBD II CABLE [00] (STANDARD)</b></p>	 <p><b>PIN CODE for keys</b></p>
<p><b>PROG. NEW KEYS</b>  <b>Keys and RC</b>  <b>(All keys or RCs to be memorized)</b>  <b>(Max 5)</b></p>	

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

## DIAGNOSIS CONNECTOR POSITIONS

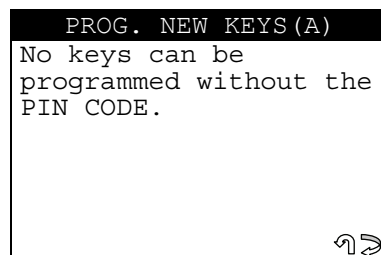


### 4.1 PROG. NEW KEYS (A)

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

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

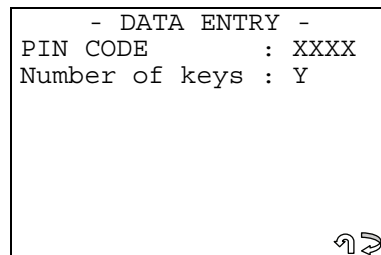
The display will show:



You must know the **PIN CODE** (secret number of 4 alphanumeric characters).

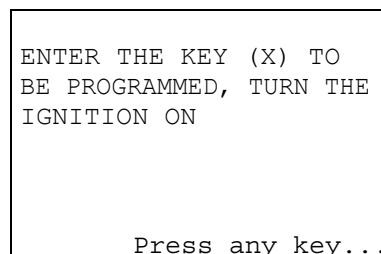
- Select **ESC** to quit;
- Press **ENTER** to continue.

The display will show:



- Enter the **PIN CODE** and press **ENTER**;
- Enter the **N° of keys** to be programmed and press **ENTER**;
- Select **ESC** to quit;
- Press **ENTER** to continue.

The display will show:



At this point the key programming in the vehicle starts.

- Insert the key to be programmed and turn to the **ON** position;
- Wait 3-5 sec;
- Press any key to continue.

If the key is programmed successfully the display will show:

KEY (X) PROGRAMMED  
BE PROGRAMMED, TURN  
THE IGNITION ON

Press any key...

- Turn the key to the **OFF** position;
- Wait 3-5 sec;
- Press any key to continue.

Repeat the operation for all keys to be programmed.

If an error has occurred in programming the display will show msg [ERROR 5] (see Ch. WARNING/ERROR MESSAGES in the User's Manual).

## RE-PROGRAMMING REMOTE CONTROLS

When key programming operations are complete, all the remote controls must be re-programmed XXXXXXXXXXXXXXXX.

### RC MEMORIZATION

Insert the key.  
Turn to ON position.  
Press RC for 10 sec.  
Remove the key.  
Repeat for all  
remote controls

Press any key...

Proceed as follows in the order given:

- Insert a key (memorized) into the control panel and turn to the **ON** position;
- Hold the door opening button on the remote control and press for 10 seconds;
- Repeat the operation for all remote controls to be programmed, using different keys;
- Press any key to continue.

### RC MEMORIZATION

At the end of the  
operation, lock the  
key with an RC and  
wait 2 mins before  
carrying out any other  
operation.

Press any key...

Proceed as follows in the order given:

- Remove all the keys from the vehicle;
- Lock the vehicle using one of the remote controls just memorized;
- Wait 2 minutes before carrying out any other operation on the vehicle;
- Press any key to continue.

If errors have occurred during programming, the display will show msg [ERROR 6] (see Ch. WARNING/ERROR MESSAGES in the User's Manual).

## TEST KEYS

**ATTENTION:** to test all memorized keys and remote controls, check that all the remote controls unlock and lock the vehicle and that the memorized keys start the engine (wait 30-40 sec. between each ignition). If this does not take place, repeat the operation.

## OPERATIONS ARCHIVE – USER DATA

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

```
Are the data you have
entered correct?

      NO
      >YES

      ↶ ↑↓ ↷
```

Select **YES/NO** and press **ENTER**;

- **No**, return to the **IMMOBILIZER FUNCTIONS** menu;
- **Yes**, proceed with memorizing the data for the completed operation;
- **ESC** to quit.

## USER DATA ARCHIVE

To enter the user data, the display will show:

```
- USER DATA -
POS.      :001
DATE     :19/07/01
>SURNAME :XXXXXXXXXXXX
NAME     :XXXXXXXXXXXX
REG. No. :XXXXXXXXXXXX

      ↑↓⇒ (Esc) ↷
```

- SURNAME (required) (**12 characters**);
- NAME / REG. No. (optional) (**12 characters**).

The following data will be saved automatically:

- **POS.**: Position where the datum will be saved;
- **DATE**: Date of the operation;
- **MAKE**: Make of vehicle for which memorization has been carried out;
- **MODEL**: Vehicle for which memorization has been carried out;
- **YEAR**: of the model;
- **Keys Mem.**: Number of keys memorized;
- **PIN CODE**: (if memorization is confirmed by operator);
- **IMMO ID**: Immobilizer identification.

To enter the data:

- use the ↑↓ keys to move to the required item.
- press ⇒ to enter and select the field in which to enter the text.
- Press **ENTER** to enter data.

NOTE: to select the required letter press the corresponding key N times.

### Glossary:

⇐: Delete the character to the left of the cursor

- 1 : space? ! - , . / & 1
- 2 : A B C 2 à Ä á â Æ
- 3 : D E F 3 è É ê ë
- 4 : G H I 4 ì î í
- 5 : J K L 5
- 6 : M N O 6 ò ô ó Ñ
- 7 : P Q R S 7 ß
- 8 : T U V 8 ù ü ú
- 9 : W X Y Z 9
- 0 : 0



Press **ENTER** to confirm.  
Press **ESC** to quit and memorize the data.  
Select **YES/NO** and press **ENTER**.

```
Are the data you have
entered correct?
      NO
    >YES

                               ↑↓➤
```

- **No**, return to the data entry screen;
- **Yes**, the data entered are filed;

## 4.2 NUMBER OF KEYS MEMORIZED

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

```
Number of keys in
memory:
      XX

Press any key...
```

- Press any key to continue.

## 4.3 READING IMMO ID

This function is used to view the immobilizer identification (**ID IMMO**) code comprising 10 alphanumeric characters.

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

```
- READING IMMO ID -
IMMO ID:
XXXXXXXXXX

Press ESC to quit
```

- Select **ESC** to quit.

## 4.4 ERROR READING

This function is used to check for any anomalies memorized in the immobilizer.

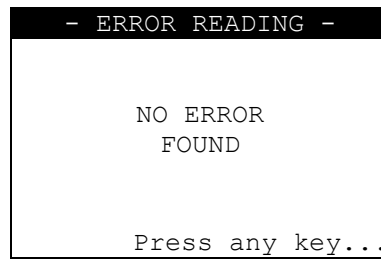
- After selection press **ENTER**; the display will show:

```
- ERROR READING -

Please wait:
error reading
```

## NO ERRORS FOUND

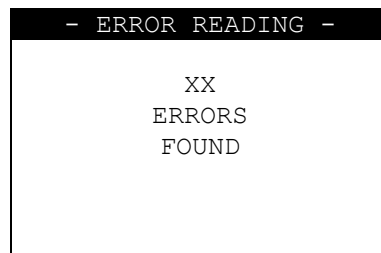
If no anomalies have been memorized, after a few seconds the display will show:



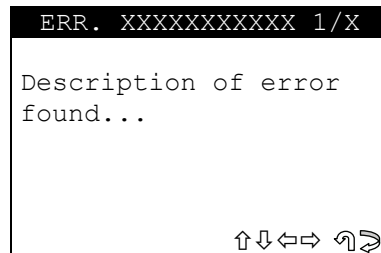
Press any key.

## ERRORS FOUND

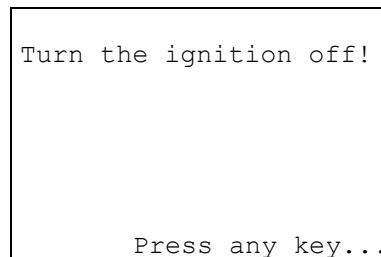
If anomalies have been memorized, the display will show the number of errors (XX) memorized in the central control unit:



Press any key to see a description of the error:



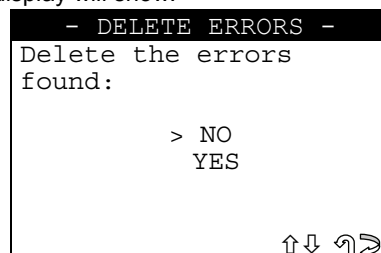
- **ERR: XXXXXXXXXXXX** error code;
- Press  $\uparrow\downarrow\leftarrow\rightarrow$  to scroll all the errors found;
- Select **ESC** to quit;
- The display will show:



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

## 4.5 DELETE ERRORS

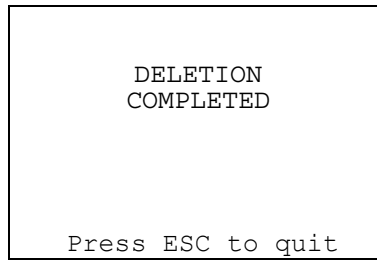
Select and press **ENTER**; the display will show:



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

- **No**, return to the previous menu;
- **Yes**, proceed with deleting the memorized errors;
- Select **ESC** to quit.

The display will show:



- Select **ESC** to quit.

## 5 ERROR MESSAGES / ERROR WARNINGS

### ERROR MESSAGE N° 7

```
PROG. NEW KEYS  
  
KEY X  
Acquisition failed  
Key faulty  
Repeat procedure  
  
Press any key...
```

The key to be programmed is faulty, replace with a new key and repeat programming.

- Press any key to continue.

```
PROG. NEW KEYS  
  
Procedure interrupted  
Keys memorized before  
procedure started are  
enabled.  
  
Press any key...
```

All the keys memorized before programming started are still enabled for operation.

- Press any key to continue.

### ERROR MESSAGE N° 8

```
PROG. NEW KEYS  
  
KEY X  
Acquisition failed  
Authentication failed  
Repeat procedure.  
  
Press any key...
```

The key to be programmed is a wrong key, replace with the right key and repeat programming.

- Press any key to continue.

```
PROG. NEW KEYS  
  
Procedure interrupted  
Keys memorized before  
procedure started are  
enabled.  
  
Press any key...
```

All the keys memorized before programming started are still enabled for operation.

- Press any key to continue.

## ERROR MESSAGE N° 9

```
PROG. NEW KEYS  
KEY X  
Acquisition failed  
Disabled key  
Repeat procedure  
  
Press any key...
```

The key to be programmed has been erased and cannot be re-programmed. Replace with a new key and repeat programming.

- Press any key to continue.

```
PROG. NEW KEYS  
Procedure interrupted  
Keys memorized before  
procedure started are  
enabled.  
  
Press any key...
```

All keys memorized before programming started are still enabled for operation.

- Press any key to continue.

## ERROR MESSAGE N° 10

```
PROG. NEW KEYS  
KEY X  
Acquisition failed  
Key already acquired  
Repeat procedure  
  
Press any key...
```

The key to be programmed has already been programmed; repeat programming.

- Press any key to continue.

```
PROG. NEW KEYS  
Procedure interrupted  
Keys memorized before  
procedure started are  
enabled.  
  
Press any key...
```

All keys memorized before programming started are still enabled for operation.

- Press any key to continue.

## ERROR MESSAGE N° 11

```
PROG. NEW KEYS  
KEY X  
Acquisition failed  
Key not present or  
without transponder.  
Repeat procedure  
Press any key...
```

The key to be programmed is without a transponder. Replace with a new key with transponder and repeat programming.

- Press any key to continue.

```
PROG. NEW KEYS  
Procedure interrupted  
Keys memorized before  
procedure started are  
enabled.  
Press any key...
```

All keys memorized before programming started are still enabled for operation.

- Press any key to continue.

## ERROR MESSAGE N° 12

```
PROG. NEW KEYS  
Key memorization failed  
EEPROM memory error  
Press any key...
```

There is an internal anomaly in the immobilizer.

- Press any key to continue.

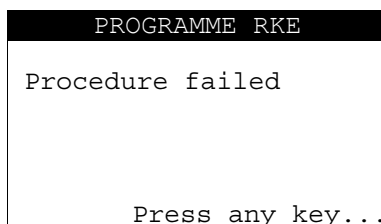
## ERROR MESSAGE N° 13

```
PROG. NEW KEYS  
Body Computer  
not properly  
programmed  
Press any key...
```

There is an internal anomaly in the Body computer.

- Press any key to continue.

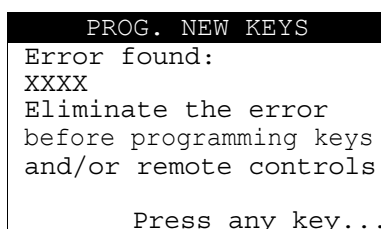
## ERROR MESSAGE N° 14



The remote control to be programmed is not the right one, or is broken, or errors have occurred during programming. Make sure the remote control is the right one and efficient, then repeat programming.

- Press any key to continue.

## ERROR MESSAGE N° 15

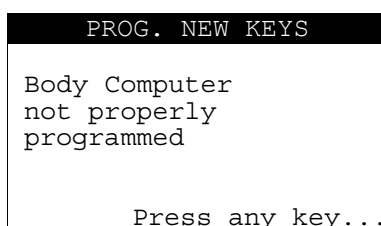


If errors are found in the immobilizer, programming cannot take place.

Delete the errors using the “**DELETE ERRORS**” function, then repeat programming.

- Press any key to continue.

## ERROR MESSAGE N° 16

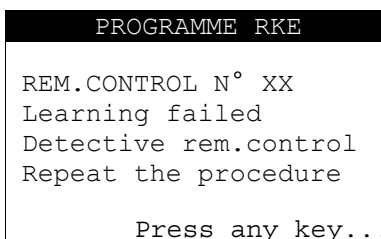


The Body computer (main control unit) is not properly programmed; programming operations cannot be carried out.

Have the Body computer properly programmed by an authorized dealer, then proceed with programming.

- Press any key to continue.

## ERROR MESSAGE N° 17



The remote control to be programmed is not the right one or is faulty.

Repeat programming, making sure that the remote control is the right one and operational.

- Press any key to continue.

## ERROR MESSAGE N° 18

```
PROGRAMME RKE  
  
REM.CONTROL N° XX  
Learning failed  
Run-down battery  
Repeat the procedure  
  
Press any key...
```

The battery in the remote control to be programmed is flat.  
Replace the remote control battery with a new one and repeat programming.  
- Press any key to continue.

## ERROR MESSAGE N° 19

```
PROGRAMME RKE  
  
REM.CONTROL N° XX  
Learning failed  
Rem.ctrl alr. acquired  
Repeat the procedure  
  
Press any key...
```

The remote control to be programmed is already in the memory and operational.  
Use a remote control not yet programmed and repeat programming.  
- Press any key to continue.

## ERROR MESSAGE N° 20

```
PROGRAMME RKE  
  
REM.CONTROL N° XX  
Learning failed  
  
Repeat the procedure  
  
Press any key...
```

Some errors have occurred during programming.  
Repeat programming, making sure that the remote control to be programmed is the right one and operational, and that the immobilizer system has no operational anomalies (use the reading errors function).  
- Press any key to continue.





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