

SDD
SilcaDiagnosticDevice

SBB

SW- OPEL[®] -L0 (SDD/SBB)

CODE: D431935XA - VERS. 3.0



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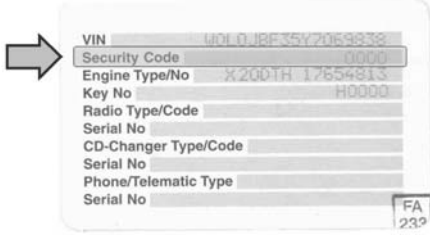
IMPORTANT NOTE: the trade-marks or trade names mentioned in our documentation are the exclusive property of authorized manufactures of lock and users, they nominated only for the purposes of information so that any lock for which our keys are made can be rapidly identified.




OPEL-VAUXHALL® FUNCTIONS MENU

The functions on these vehicles are:

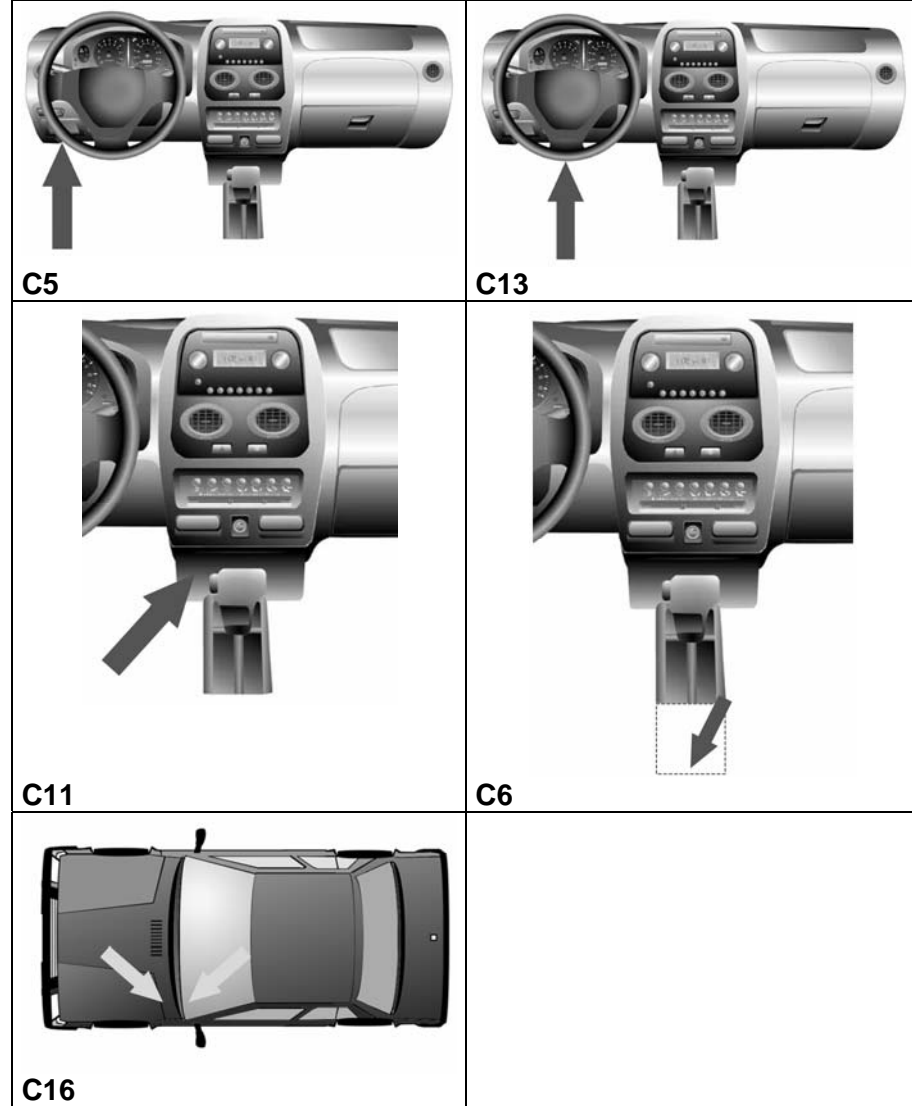
- To program new keys (max 5 keys in the memory);
- Read IMMO ID;
- Read the errors present;
- Delete all errors.

To make use of this function, use:

	 <p style="text-align: center;">SWITCH ADAPTER</p>
 <p style="text-align: center;">CABLE OBDII [00] (STANDARD)</p>	 <p style="text-align: center;">CABLE OPEL [02] (OPTIONAL)</p>
 <p style="text-align: center;">New key/s (Max 5)</p>	<p style="text-align: center;">PIN CODE</p>  <p style="text-align: center;">4 digit numerical On the Car Pass label</p>

SBB	CABLE/ADAPTOR
	 <p style="text-align: center;">CABLE OBD II [00] (STANDARD)</p>
	 <p style="text-align: center;">CABLE OPEL [02] (OPTIONAL)</p>

WHERE TO FIND THE PLUG DIAGNOSTICS

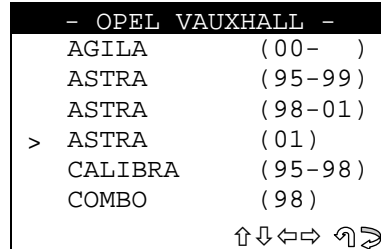


SELECTING THE CAR MAKE

In this case SDD/SBB is able to automatically recognize the various central units connected and therefore

uses the right communication procedure. Simply identify:

- CAR MODEL
- YEAR OF MANUFACTURE



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

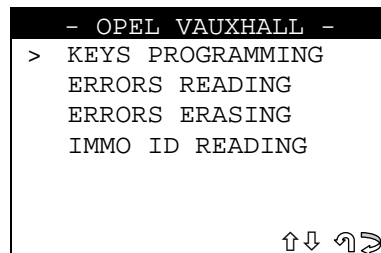
FUNCTIONS MENU

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

- to program new keys in the immobilizer also when all the original keys are missing;
- erase from the memory the code for one or more missing keys;
- check how many keys are in the memory;
- view immobilizer identification (IMMO ID), V.I.N. and mechanical code (only on certain models);
- erase any anomalies found in the immobilizer memory.

ATTENTION: the structure of the programming system for OPEL-VAUXHALL® allows keys to be added or erased individually in the vehicle.

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



- Select and press **ENTER**.

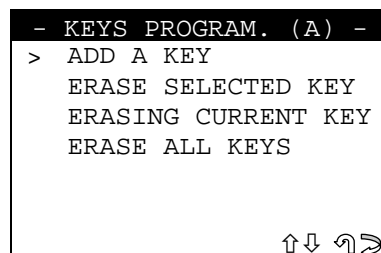
Depending on the model of vehicle that is chosen the different types of menu may appear: "PROGRAMMING KEYS", type (A), type (B) and type (C).

1.1 PROGRAMMING KEYS

1.1.1 PROGRAMMING KEYS (A)

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

- To activate the function select "KEY PROGRAMM." and press **ENTER**:

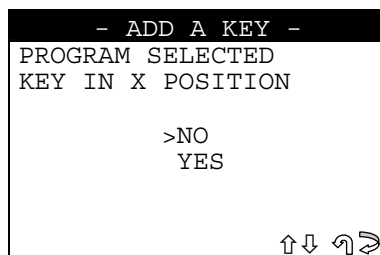


1.1.1.1

ADD A KEY

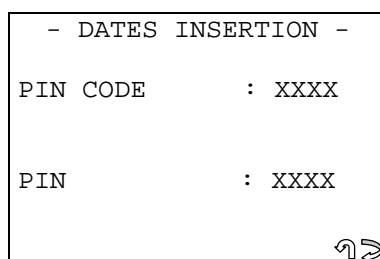
This function is used to add a new key.

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



- Select YES/NO and press **ENTER**.
- **No**, to return to the previous menu;
- **Yes**, to store the new key in the memory position (X).
- Press **ENTER** to confirm.
- Press **ESC** to quit.

The display will show:



- Enter the **PIN CODE** and press **ENTER**.

The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:

- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

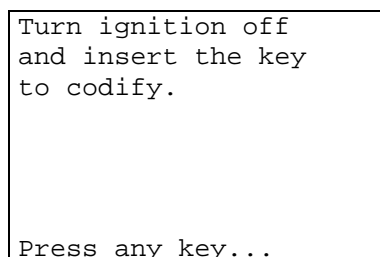
If the PIN CODE is lost, apply to an authorized OPEL® dealer for another one, providing the IMMO ID and car chassis number.

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

KEY PROGRAMMING

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

The display will show:



- Turn the key to the **OFF position** and insert the key to be programmed.
- Press a key.

The programming stage of the key then takes place on the vehicle.

After a few seconds the display will show:

```
THE KEY
HAS BEEN STORED
```

After a few seconds the display will show:

```
Turn the ignition ON!

Press any key...
```

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

KEYS TESTING

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

ARCHIVING OPERATIONS - USERS DATA

At the end of the memorizing operations the following message will appear:

```
Do you want to save
the customer data?

NO
>YES

↶ ↑ ↓ ➤
```

- Select **YES/NO** and press **ENTER**.
- No, to return to the **IMMOBILIZER** function menu.
- **Yes**, to memorize the data relating to the operation completed.
- Select **ESC** to quit.

The display will show:

```
Do you want to save
the customer data?

NO
>YES

↑ ↓ ➤
```

- Select **YES/NO** and press **ENTER**.
- No, the data are archived except for the **PIN CODE**.
- **Yes**, the user data are archived.

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

↑↓↔↵
```

- 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 confirmed.
- To quit and memorize the data, press **ESC**.

```
Is the information
inserted correct?
      NO
      >YES

↑↓↵
```

- Select YES/NO and press **ENTER**.
- **No**, to return to the data entry window.
- **Yes**, to store the data in the file.

1.1.1.2

ERASE SELECTED KEY

This function is used to erase a key from the immobilizer.

The position in the memory where the key has been stored must be known (POSITION X).

- Select **“ERASE SELECTED KEY”** from the menu and press **ENTER**; the display will show:

```
- ERASE SELECTED KEY -
Available key
to erase:
-1-2- -5-

Witch position?:
```

This screen shows the position in the memory occupied by keys that operate on the car.

- Digit the position in the memory to be erased and press **ENTER**.

The display will show a number to be confirmed.

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

The display will show:

```
Key erasing
in position X
Want to go on?
      NO
      >YES

      ↑↓  ↶ ↷
```

- Select YES/NO and press **ENTER**.
- **No**, to return to the previous menu.
- **Yes**, to erase the key from the position in the memory (Position X).
- **ESC** to quit.

The display will show:

```
- DATES INSERTION -

PIN CODE      : XXXX

PIN           : XXXX

      ↶ ↷
```

- Enter the **PIN CODE** and press **ENTER**.

The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:

- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

If the PIN CODE is lost, apply to an authorized OPEL® dealer for another one, providing the IMMO ID and car chassis number.

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

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

The display will show:

```
Turn the key
in OFF position

Press any key...
```

- Turn the key to the **OFF position**.
 - Press a key.
- The deletion of key No. X then takes place.

After a few seconds the display will show:

```
Key erased
on X position
```

After a few seconds the display will show:

```
Turn the ignition ON!

Press any key...
```

- Turn the key to the **ON position** and press a key.
At the end of the operation return to the **“PROGRAMM. KEYS” (A)**.

KEYS TEST

ATTENTION: to check that the key no longer works, test by trying to turn on the car engine.

1.1.1.3

ERASING CURRENT KEY

This function is used to erase a key inserted into the immobilizer unit; to continue enter the **PIN CODE**.

- Select **“ERASING CURRENT KEY”** and press **ENTER**; the display will show:

```
- ERASING CURRENT KEY -
Key erasing
in position X

          NO
          >YES

          ↑↓ ↻
```

- Select YES/NO and press **ENTER**.
- **No**, to return to the previous menu.
- **Yes**, to erase the key from the position in the memory (Position X).
- Press **ESC** to quit.

```
- DATES INSERTION -

PIN CODE      : XXXX

PIN           : XXXX

          ↻
```

The **PIN CODE** must be entered and press **ENTER**.

The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:

- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

If the PIN CODE is lost, apply to an authorized OPEL® dealer for another one, providing the IMMO ID and car chassis number.

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

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

The display will show:

Turn the key
in OFF position

Press any key...

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

Deletion of the key inserted then takes place.

After a few seconds the display will show:

ERASING CURRENT KEY
IN X position

After a few seconds the display will show:

Turn the ignition ON!

Press any key...

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

At the end of the operation return to the “PROGRAMM. KEYS” (A).

1.1.1.4

ERASING ALL KEYS

This function is used to erase all the keys stored in the immobilizer memory; to continue enter the **PIN CODE**.

- "ERASE ALL KEYS" from the "PROGRAMM. KEYS" menu and press ENTER.

The display will show:

```
- ERASE ALL KEYS -
All key will be
erased.

Want to go on?
      YES
    >NO
                                     ↑↓ ↶ ↷
```

- Select YES/NO and press **ENTER**.
- **No**, to return to the previous menu.
- **Yes**, to erase all the keys stored in the immobilizer memory.
- Select **ESC** to quit.

Enter the **PIN CODE** and press **ENTER**.

The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:

- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

If the PIN CODE is lost, apply to an authorized OPEL® dealer for another one, providing the IMMO ID and car chassis number.

```
- DATES INSERTION -

PIN CODE      : XXXX

PIN           : XXXX
                                     ↶ ↷
```

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

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

The display will show:

```
Turn the key
in OFF position

Press any key...
```

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

Deletion of all the keys then takes place.

After a few seconds (10"-40") the display will show:

```
All keys
has been
erased
```

- Deletion terminated.
After a few seconds the display will show:

```
Turn the ignition ON!

Press any key...
```

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

1.1.2 PROGRAMMING KEYS (B)

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

Is not possible to erase keys individually on the vehicle.

- To activate the function, select "**PROGRAMM.KEYS**" and press **ENTER**:

```
- KEYS PROGRAM. (B) -
> NEW KEY ADDING
  OLD KEY ADDING
  ERASE ALL KEYS

↑↓ ↻
```

1.1.2.1 NEW KEY ADDING

This function is used to add a **key that has never been programmed** in the immobilizer.

- Select "**NEW KEY ADDING**" and press **ENTER**; the display will show:

```
- NEW KEY ADDING -
KEY STORING

>NO
  YES

↑↓ ↻
```

- Select **YES/NO** and press **ENTER**.
- **No**, to return to the previous menu;
- **Yes**, to program the new key.

The display will show:

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

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

```
- DATES INSERTION -  
  
PIN CODE      : XXXX  
  
PIN           : XXXX  
  
↶ ↷
```

- Enter **PIN CODE** and press **ENTER**.

The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:

- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

If the PIN CODE is lost, apply to an authorized OPEL® dealer for another one, providing the IMMO ID and car chassis number.

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

PROGRAMMING THE KEY

The display will show:

```
INSERT THE NEW KEY  
  
TURN IGNITION ON!  
  
Please wait
```

- Enter the **new key** to be programmed and turn it to the **ON position**; after a few seconds the display will show:

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

- Turn the **NEW key** to the **OFF position**.
- Press a key to continue.

The display will show:

Turn the ignition ON!

Please wait

- Turn the NEW key to the **ON position**. Programming of the key on the vehicle then starts.
- After a few seconds the display will show:

The key has been stored

Press any key

- Press a key
The display will show:

Other key to stored?

>YES
NO

↑↓➤

- Select YES/NO, then press **ENTER**.
 - **No**, to store the user data in the archive.
 - **Yes**, to program a new key.
- At the end of the operation the display will show:

Extract the programmed key

Press any key

- Press a key to store the user data in the archive.

TESTING KEYS

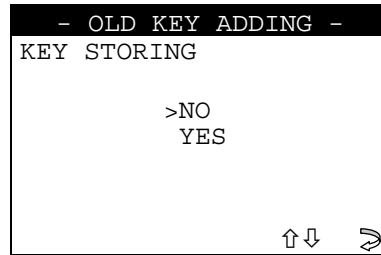
ATTENTION: to check that the programmed keys work properly, carry out an ignition test on the car. If necessary repeat the operation.

1.1.2.2

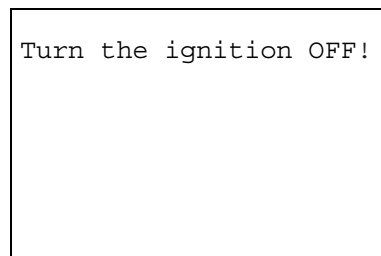
OLD KEY ADDING

This function is used to add a **key that was previously erased** in the immobilizer.

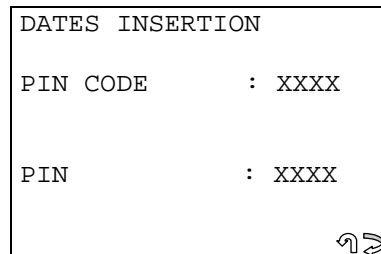
- Select "**OLD KEY ADDING**" and press **ENTER**; the display will show:



- Select YES/NO and press **ENTER**.
- **No**, to return to the previous menu;
- **Yes**, to program the new key. The display will show:



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



- Enter **PIN CODE** and press **ENTER**.

The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:

- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

If the PIN CODE is lost, apply to an authorized OPEL® dealer for another one, providing the IMMO ID and car chassis number.

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

PROGRAMMING A KEY

The display will show:

INSERT THE NEW KEY
TURN IGNITION ON!

Please wait

- Enter the **"OLD" key** to be programmed and turn to the **ON position**; the display will show:

Turn the ignition OFF!

Please wait

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

Turn the ignition ON!

Please wait

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

The key is then programmed in the vehicle.

After a few seconds the display will show:

The key has been
stored

Press any key

- Press a key
The display will show:

Other key to
stored?

>YES
NO



- Select **YES/NO**, then press **ENTER**.
- **No**, to store the user data in the archive

- **Yes**, to store the "OLD" key in the memory again.
At the end of the operation the display will show:

```

Extract the
programmed key

Press any key

```

- Press a key to store the user data in the archive.

ARCHIVING OPERATIONS - USERS DATA

At the end of the memorizing operations the following message will appear:

```

Do you want to save
the customer data?

NO
>YES

↶ ↑ ↓ ➤

```

- Select **YES/NO** and press **ENTER**.
- **No**, to return to the IMMOBILIZER function menu.
- **Yes**, to memorize the data relating to the operation completed.
- Select **ESC** to quit.

The display will show:

```

Do you want to save
PIN CODE?

NO
>YES

↑ ↓ ➤

```

- Select YES/NO and press **ENTER**.
- **No**, the data are archived **except for the PIN CODE**.
- **Yes**, the user data are archived.

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

↑ ↓ ⇐ ⇒ ↶ ➤

```

- 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 $\uparrow\downarrow$ keys to position on the desired item.
- Press \Rightarrow to enter and select the field where the text is to be typed.
- Press **ENTER** to confirmed.
- To quit and memorize the data, press **ESC**.

```
Is the information
inserted correct?
      NO
      >YES
                                     ↑↓ ⇒
```

- Select YES/NO and press **ENTER**.
- **No**, to return to the data entry window.
- **Yes**, to store the data in the file.

1.1.2.3

ERASING ALL KEYS

This function is used to erase all the keys stored in the immobilizer memory; to continue enter the **PIN CODE**.

- "ERASE ALL KEYS" from the "PROGRAMM. KEYS" menu and press ENTER.

The display will show:

```
- ERASE ALL KEYS -
All key will be
erased.

Want to go on?
      YES
      >NO
                                     ↑↓ ↶ ⇒
```

- Select and press **ENTER**.
- **No**, to return to the previous menu.
- **Yes**, to erase all the keys stored in the immobilizer memory.
- Select **ESC** to quit.

Enter the **PIN CODE** and press **ENTER**.

The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:

- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

If the PIN CODE is lost, apply to an authorized OPEL® dealer for another one, providing the IMMO ID and car chassis number.

```
DATES INSERTION

PIN CODE      : XXXX

PIN           : XXXX

↶ ↷
```

- Select **ESC** to quit.
 - Press **ENTER** to continue.
- There is already a key in the ON position on the ignition unit.
The display will show:

```
Turn the key
in OFF position

Press any key...
```

- Turn the key to the **OFF position** and press a key.
- Deletion of all the keys then takes place.
After a few seconds (10"-40") the display will show:

```
All keys
has been
erased
```

- Deletion terminated.
- After a few seconds the display will show:

```
Turn the ignition ON!

Press any key...
```

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

1.1.3 PROGRAMMING KEYS (C)

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

To program new keys the **PIN CODE** must be known.

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

The display will show:

```
- PROG.KEYS (C) -
> ADD KEYS
  ERASE ALL KEYS
  NUM.OF MEMORIZED KEY

↑↓ ↻
```

1.1.3.1 ADD KEY

This function is used to add a maximum total of five operating keys to the system.

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

```
- ADD KEYS -
If you don't have
PIN CODE
you don't codify
any key

↻
```

- The **PIN CODE** is required (secret number with 4 digits).

The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:

- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

If the PIN CODE is lost, apply to an authorized OPEL® dealer for another one, providing the IMMO ID and car chassis number.

- Press **ESC** to quit.
- Press **ENTER** to continue. The display will show:

```
- DATES INSERTION -
PIN CODE      : XXXX

↻
```

- Enter the **PIN CODE** and press **ENTER**.
- Select **ESC** to quit.
- Press **ENTER** to continue.

KEY PROGRAMMING

The **key programming stage** will then begin on the vehicle.

- If a wrong PIN has been entered or there are errors during communication, the display will show **error message** (see chapter WARNING/ERROR MESSAGES - Operating Manual SDD/SBB)
- If the PIN is correct the display will show:

Turn the ignition OFF
insert the key
to program

Press any key...

- Turn the key to the **OFF position** and insert the key to be programmed.
- Press any key.

The key have been
stored

Other key to
stored?

↩

- Press **ENTER** to memorize a new key (see **KEY PROGRAMMING**).

ATTENTION: a maximum of five keys can be programmed, including those already operational.

- Press **ESC** to go to archiving operation - user data.

TESTING THE KEY

ATTENTION: to check that the memorized keys and remote controls work, test that all the remote controls lock and unlock the car and that the memorized keys start the engine (always leave an interval of 30-40 sec. between ignitions). If the test is negative, repeat the operation.

ARCHIVING OPERATIONS - USERS DATA

At the end of the memorizing operations the following message will appear:

Do you want to save
the customer data?

NO
>YES

↩ ↑ ↓ ➡

- Select **YES/NO** and press **ENTER**.
- **No**, to return to the IMMOBILIZER function menu.
- **Yes**, to memorize the data relating to the operation completed.
Select **ESC** to quit.

The display will show:

```
Do you want to save
PIN CODE?

      NO
    >YES

      ↑↓⇒
```

- Select YES/NO and press **ENTER**.
- **No**, the data are archived **except for the PIN CODE**.
- **Yes**, the user data are archived.

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

      ↑↓⇐⇒↻
```

- 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 confirmed.
- To quit and memorize the data, press **ESC**.

```
Is the information
inserted correct?

      NO
    >YES

      ↑↓⇒
```

- Select **YES/NO** and press **ENTER**.
- **No**, to return to the data entry window.
- **Yes**, to store the data in the file

1.1.3.2

ERASE ALL KEYS

This function is used to erase all the keys stored in the immobilizer memory; to continue enter the **PIN CODE**.

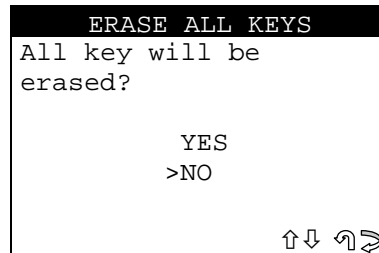
The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:

- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

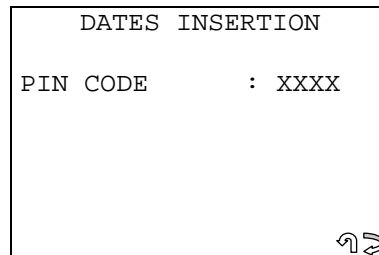
If the PIN CODE is lost, apply to an authorized OPEL® dealer for another one, providing the IMMO ID and car chassis number.

- Select **"ERASE ALL KEYS"** and press **ENTER**;

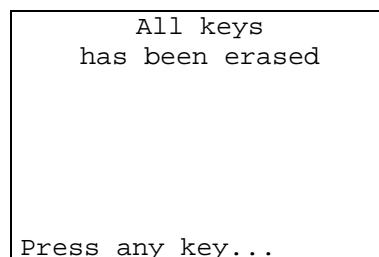
The display will show:



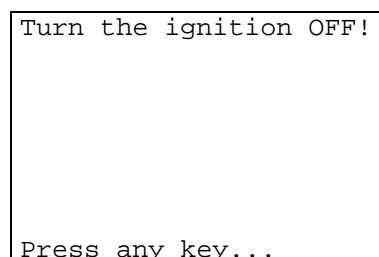
- Select YES/NO and press **ENTER**.
- **No**, to return to the previous menu.
- **Yes**, to erase all the keys stored in the immobilizer memory.
- Select **ESC** to quit.



- Enter the **PIN CODE** and press **ENTER**.
- Select **ESC** to quit.
- Press **ENTER** to continue



- Press a key to continue



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

1.1.3.3

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.OF KEYS IN MEM.
Keys number in
memory:
          XX
Press any key...
```

- Press a key to continue.

1.2

READ ERRORS

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

- Select the item "**ERRORS READING**" and press **ENTER**; the display will show:

```
Please wait:
present errors
```

NO ERRORS

If there are no anomalies in the memory, the display will show:

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

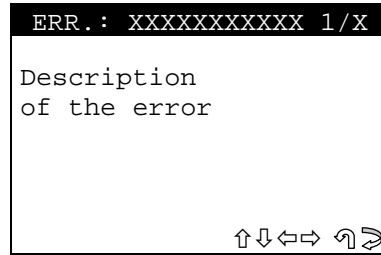
ERRORS FOUND

If there are anomalies in the memory, the display will show:

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

The display will show how many errors (XX) there are in the immobilizer memory:

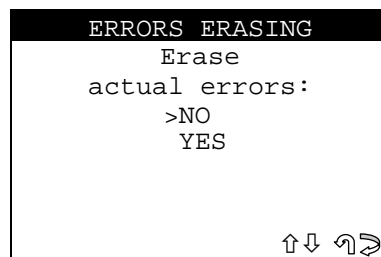
Press any key to see:



- **ERR: XXXXXXXXXXXX** code for error found,
- Press **↑↓↔⇒** to scroll all the errors found in sequence.
- Press **ESC** to return to the previous menu.

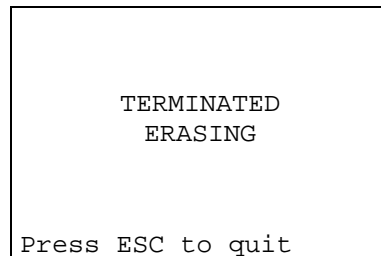
1.3 ERASE ERRORS

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



- 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 the message:

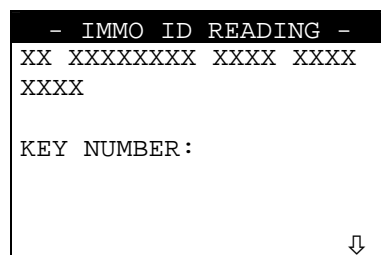


- Select **ESC** to return to the main menu.

1.4 IMMO ID READING

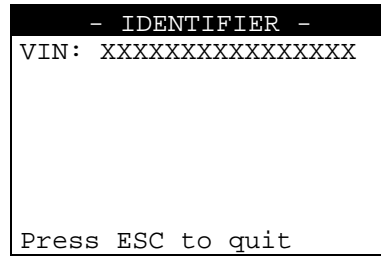
This function is used to view **immobilizer identification (ID IMMO.)**, a code comprising alphanumerical characters essential for finding a missing **PIN CODE**; in such cases the PIN CODE is issued by the car manufacturer.

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



The immobilizer identification (**IMMO ID**) is shown

- **KEY NUMBER**: mechanical key code (info. available only on some car models).
- Press ↓ to continue.



The following data are shown on this screen:

- **VIN**: Vehicle Identification Number.
- Press **ESC** to quit.

OPEL® CAN REMOTE CONTROL FUNCTIONS MENU (Routine 48 - 65)

New generation vehicles use a new communication technology known as CAN BUS (Controller Area Network). This system is designed to eliminate the problem of too many electric wires in modern cars as a result of an increase in the number of functions run electronically. Nowadays on most vehicles, one electric wire carries out a single function, i.e. it powers a single component, or it receives or sends just one piece of information; CAN makes use of a connection to a «multiplex» network that connects the various control units and transmits data and signals on a single line (aka «data bus»).

OPERATIONAL NOTES

Functions for these vehicles:



- Deletion of all keys/remote controls;
- Addition of a key and remote control;
- Reading of number of remote controls programmed.

Up to a maximum of 5 keys/remote controls can be programmed at the same time.

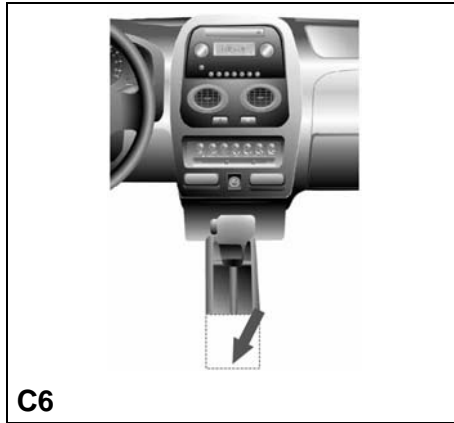
ATTENTION: New generation OPEL® keys incorporate the remote control function in their transponder so when a key is programmed the remote control to which it is associated is also automatically programmed.

To make use of this function you need:

	 <p>Switch Adapter CAN BUS - D726833ZB</p>
 <p>CABLE OBDII [00] (STANDARD)</p>	
 <p>KEY/REMOTE CONTROL TO BE PROGRAMMED</p>	 <p>Numeric with 4 digits Found on Car Pass plate PIN CODE</p>

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

WHERE TO FIND THE PLUG DIAGNOSTICS



- From the "IMMOBILIZER" menu select the specific vehicle model and press **ENTER**.

```
INSERT A KEY  
TURN THE IGNITION ON
```

(ESC) ➤

- Press **ESC** to quit;
- Insert the key into the block and turn to the **ON** position;
- Press **ENTER** to continue.
- The display will show:

```
- OPEL (CAN) -  
> PROG.NEW KEYS  
  ERASE ALL KEYS  
  MEM.KEYS NUMBER
```

↑↓(ESC) ↻➤

- Select and press **ENTER**.

2.1.1

PROGRAMMING NEW KEYS

This function can be used to add keys/remote controls to the immobilizer.

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

```
- PROG.NEW KEYS -  
If you don't have  
  PIN CODE  
you don't codify  
  any key
```

(ESC) ➤

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

The display will show:

```
- DATES INSERTION -  
  
PIN CODE           :XXX  
  
                    (ESC) ➤
```

- Press **ESC** to quit;
- Enter the SECURITY CODE (secret number of four digits given on the CAR PASS card – see page 28);
- Press **ENTER** to continue.
- Programming of the keys/remote controls in the car now begins.

If the Security Code is wrong or errors have occurred during communication, the display will show msg [ERROR 4] (see chapter WARNING/ERROR MESSAGES in the Operating Manual SDD/SBB).

If there are no errors, the display will show:

Insert the new key,
turn ignition on!

Press any key...

- Insert the key/remote control to be programmed in the block and turn to the **ON** position;
- Press a key to continue.

The display will show:

Remove the key

Press any key...

- Remove the key/remote control from the block;
- Press a key to continue.

The display will show:

Turn the ignition ON!

Press any key...

- Insert the key to be programmed again and turn to the **ON** position;
- Press a key to continue.

If errors have occurred during communication or the key used is not the right one, the display will show msg [ERROR 5] (see chapter WARNING/ERROR MESSAGES in the Operating Manual SDD/SBB), if there are no errors, the display will show:

The key have been
stored!
Other key to
store?

(ESC) ➤

- Press **ENTER** to programme other keys (repeat the operations from:
Press **ESC** to go to archiving operation - user data.

2.2

ERASE ALL KEYS

This function is used to delete all keys and remote controls.

- To activate the function, select “**ERASE ALL KEYS**” and press **ENTER**.
The display will show:

```
- PROG.NEW KEYS -  
If you don't have  
  PIN CODE  
you don't codify  
  any key  
  
                (ESC) ➤
```

- Press **ESC** to quit;
 - Press **ENTER** to continue;
- The display will show:

```
DATA INSERTION  
  
PIN CODE           :XXX  
  
                (ESC) ➤
```

- Press **ESC** to quit;
- Enter the **SECURITY CODE** (secret number of four digits given on the CAR PASS card – see page 28);
- Press **ENTER** to continue.

The deletion stage for the keys/remotes controls in the vehicle starts now.
Programming of the keys/remote controls in the car now begins

The display will show:

```
All remote controls  
have been deleted  
  
                Press any key...
```