SDD

SilcaDiagnosticDevice

SBB

SW- OPEL® -L0 (SDD/SBB)

CODE: D431369XA - VERS. 2.0

GB

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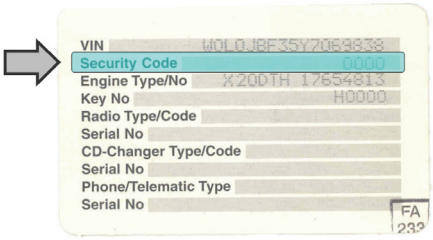
1 OPEL-VAUXHALL® FUNCTIONS MENU

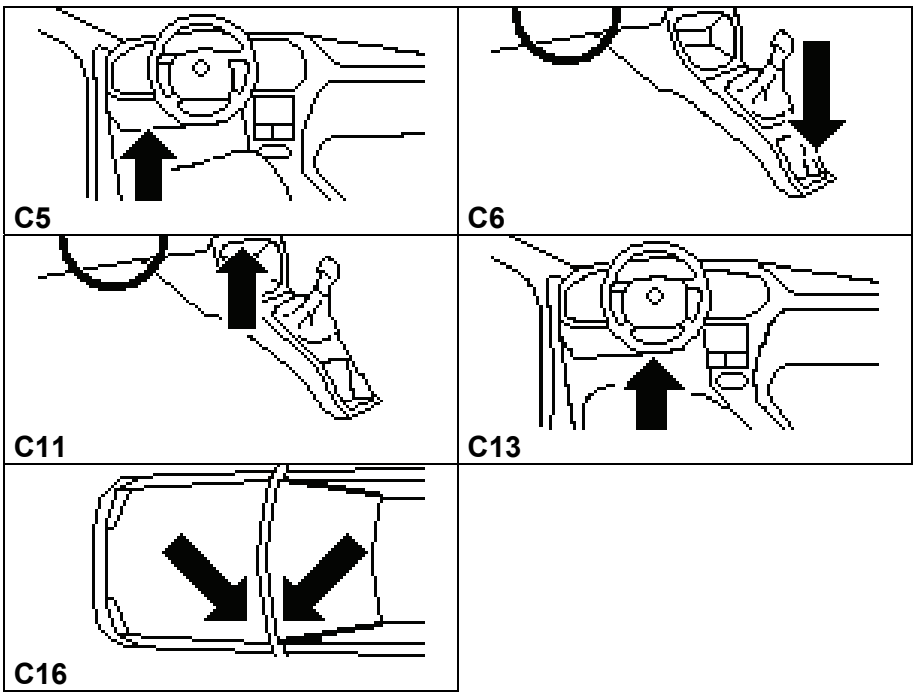
The functions on these vehicles are:
- Programme new keys (max 5 keys in the memory);
- Read IMMO ID;
- Read the errors present;
- Delete all errors.

To make use of this function, use:

	 SWITCH ADAPTER
 CABLE OBDII [00] (STANDARD)	 CABLE OPEL [02] (OPTIONAL)
 New key/s (Max 5)	**PIN CODE**  4 digit numerical On the Car Pass label

SBB	CABLE/ADAPTOR
	 CABLE OBD II [00] (STANDARD)
	 CABLE OPEL [02] (OPTIONAL)

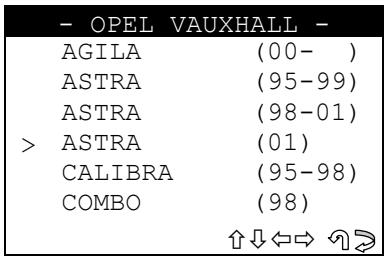
WHERE TO FIND THE PLUG DIAGNOSTICS



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**.**

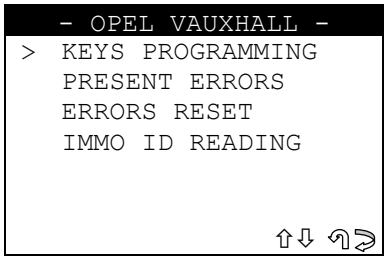
FUNCTIONS MENU

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

- programme 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.**

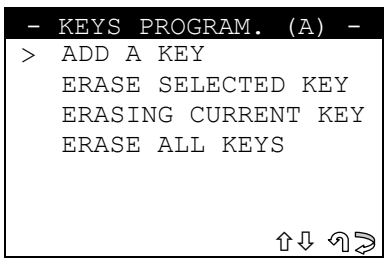
Depending on the model of vehicle that is chosen the different types of menu may appear: **"PROGRAMMING KEYS"**, type (A), type (B) and type (C).

1.1 PROGRAMMING KEYS

1.1.1 PROGRAMMING KEYS (A)

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

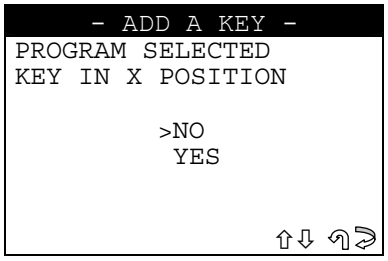
- To activate the function select **"KEY PROGRAMM."** and press **ENTER**:



1.1.1.1 ADD A KEY

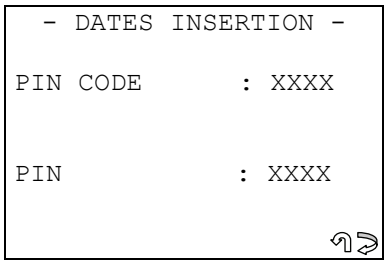
This function is used to add a new key.

- 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:

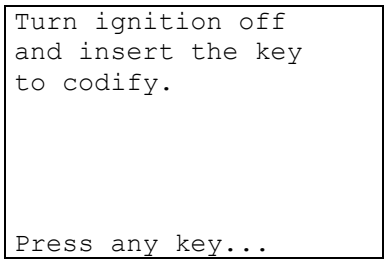
- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

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

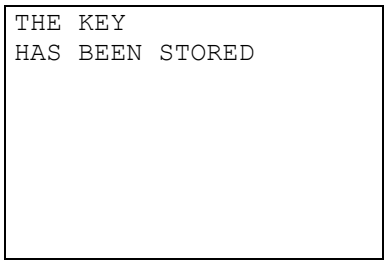
There is already a key in the ON position on the ignition unit.
The display will show:



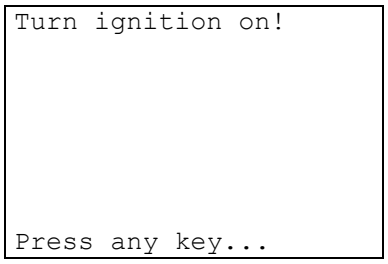
- Turn the key to the **OFF position** and insert the key to be programmed.
- Press a key.

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

After a few seconds the display will show:



After a few seconds the display will show:



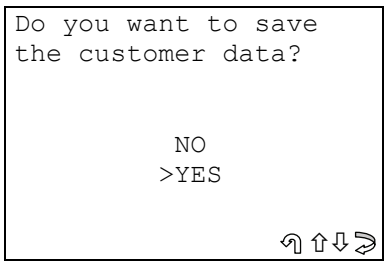
- Turn the key to the **ON position** and press a key.

KEYS TESTING

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

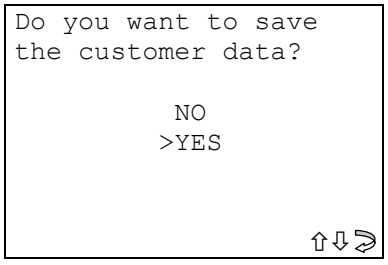
ARCHIVING OPERATIONS - USERS DATA

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



- 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.

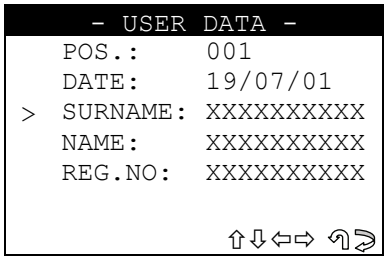
The display will show:



- 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:



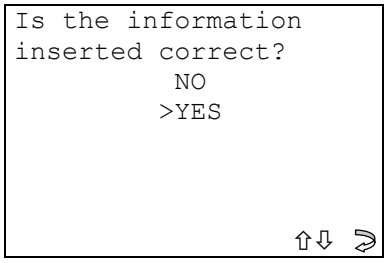
- SURNAME (required) (**12 characters**).
- NAME / NUMBER PLATE (optional) (**12 characters**).

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.**



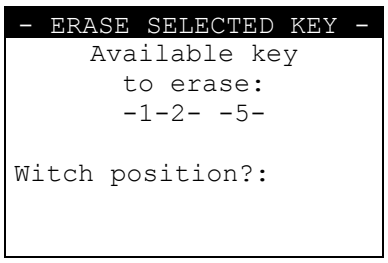
- Select YES/NO and press **ENTER.**
- **No**, to return to the data entry window.
- **Yes,** to store the data in the file.

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:



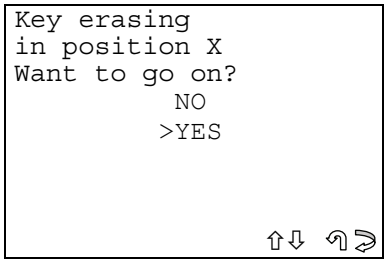
This screen shows the position in the memory occupied by keys that operate on the car.

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

The display will show a number to be confirmed.

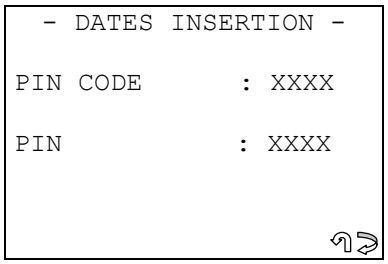
- Press **ENTER** to continue.
- Press **ESC** to quit.

The display will show:



- 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:



- 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:

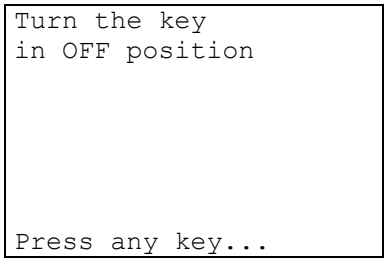
- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

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.

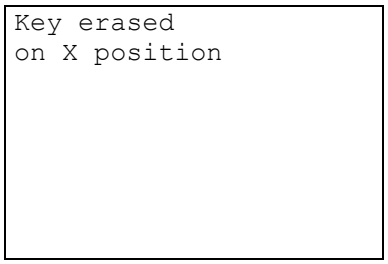
The display will show:



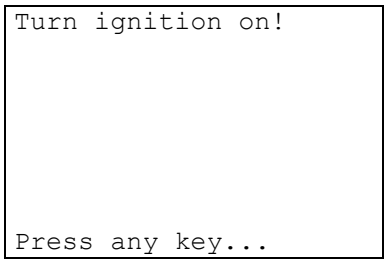
- Turn the key to the **OFF position**.
- Press a key.

The deletion of key No. X then takes place.

After a few seconds the display will show:



After a few seconds the display will show:



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

At the end of the operation return to the **"PROGRAMM. KEYS" (A).**

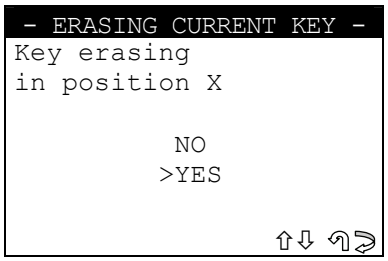
KEYS TEST

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

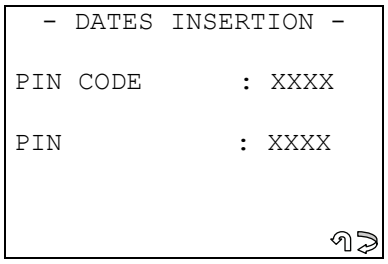
1.1.1.3 ERASING CURRENT KEY

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:



- 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 **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:

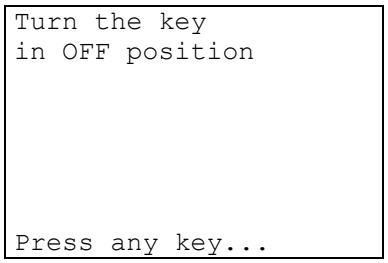
- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

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.

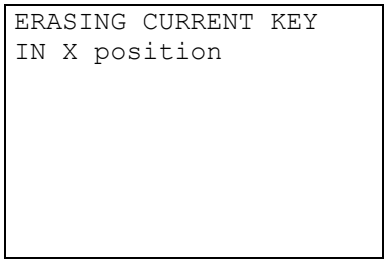
There is already a key in the ON position on the ignition unit.

The display will show:

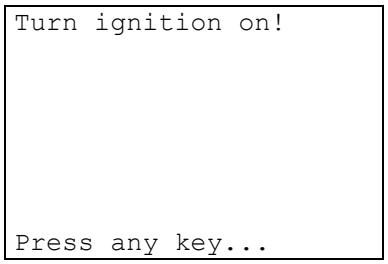


- Turn the key to the **OFF position** and press a key.

Deletion of the key inserted then takes place.
After a few seconds the display will show:



After a few seconds the display will show:



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

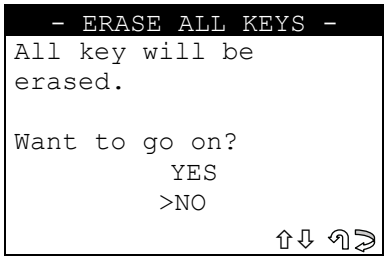
At the end of the operation return to the **"PROGRAMM. KEYS" (A).**

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:



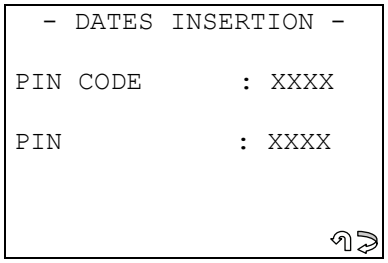
- Select YES/NO and press **ENTER.**
- **No**, to return to the previous menu.
- **Yes**, to erase all the keys stored in the immobilizer memory.
- Select **ESC** to quit.

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:

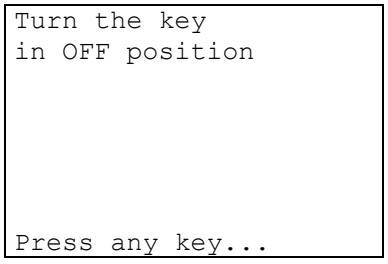
- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

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



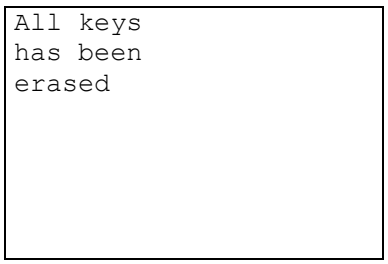
- Select **ESC** to quit.
- Press **ENTER** to continue.

There is already a key in the **ON position** on the ignition unit.
The display will show:



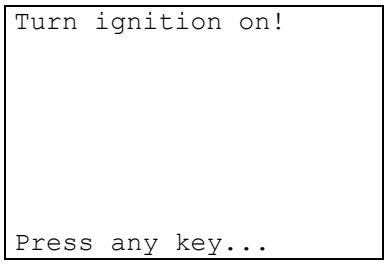
- Turn the key to the **OFF position** and press a key.

Deletion of all the keys then takes place.
After a few seconds (10"-40") the display will show:



- Deletion terminated.

After a few seconds the display will show:



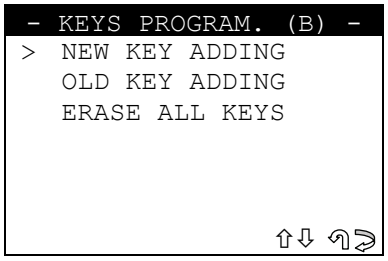
- Turn the key to the **ON position** and press a key.

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.

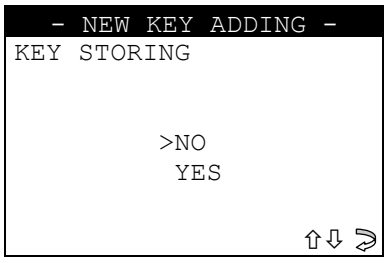
- To activate the function, select **"PROGRAMM.KEYS"** and press **ENTER**:



1.1.2.1 NEW KEY ADDING

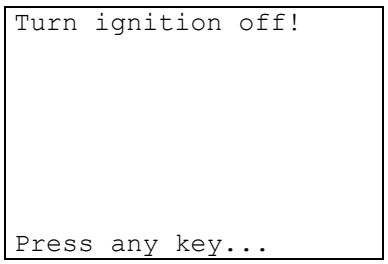
This function is used to add a **key that has never been programmed** in the immobilizer.

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

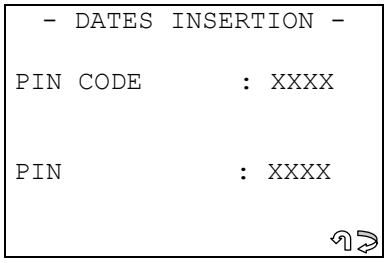


- Select YES/NO and press **ENTER.**
- **No**, to return to the previous menu;
- **Yes,** to programme the new key.

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:

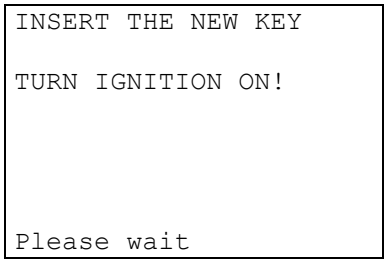
- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

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

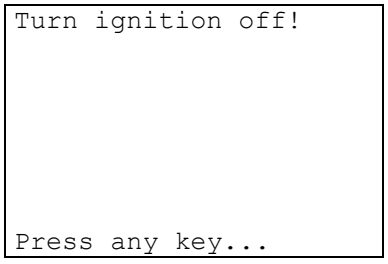
- Press **ESC** to quit.
- Press **ENTER** to continue.

PROGRAMMING THE KEY

The display will show:

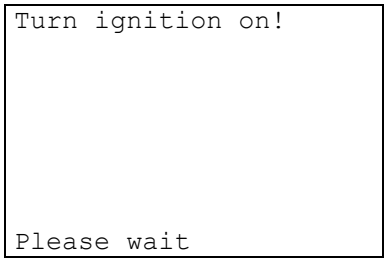


- Enter the **new key** to be programmed and turn it to the **ON position;** after a few seconds the display will show:



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

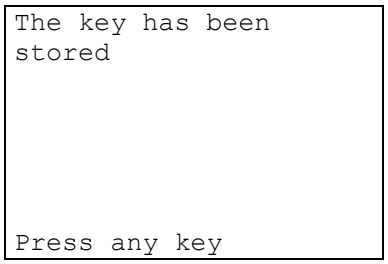
The display will show:



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

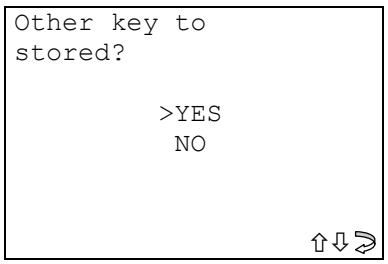
Programming of the key on the vehicle then starts.

- After a few seconds the display will show:



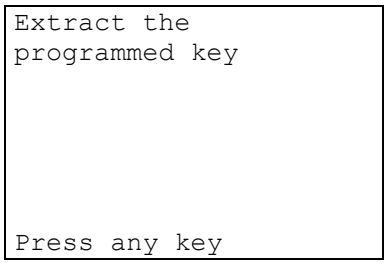
- Press a key

The display will show:



- Select YES/NO, then press **ENTER.**
- **No,** to store the user data in the archive.
- **Yes**, to programme a new key.

At the end of the operation the display will show:



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

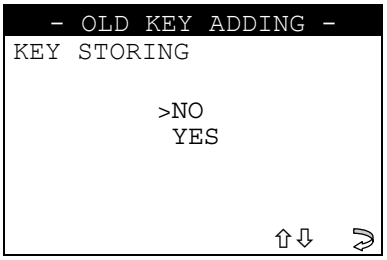
TESTING KEYS

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

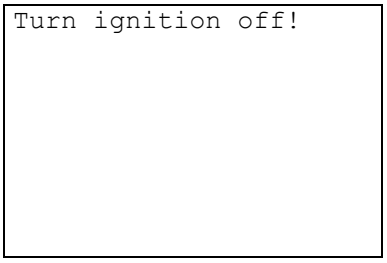
1.1.2.2 OLD KEY ADDING

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

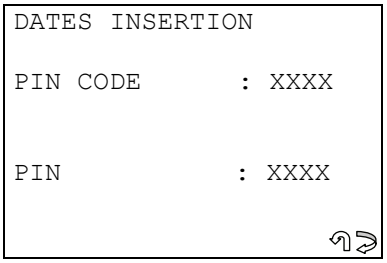
- Select **"OLD KEY ADDING"** and press **ENTER**; the display will show:



- Select YES/NO and press **ENTER.**
- **No**, to return to the previous menu;
- **Yes**, to programme 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 ignition off!




Please wait
```

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

```
Turn 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

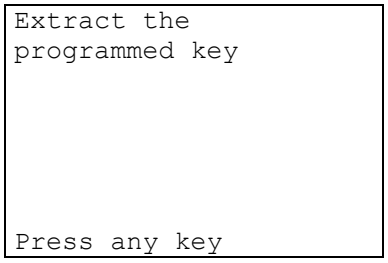
The display will show:

```
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.

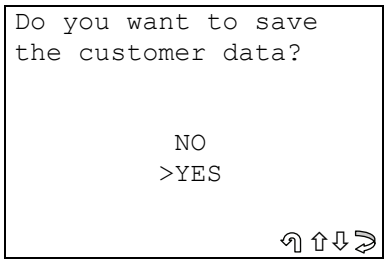
At the end of the operation the display will show:



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

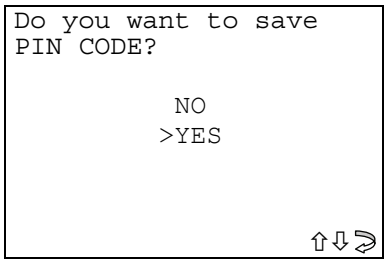
ARCHIVING OPERATIONS - USERS DATA

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



- 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.

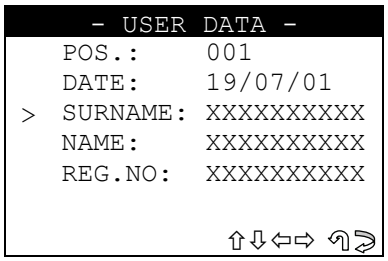
The display will show:



- 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

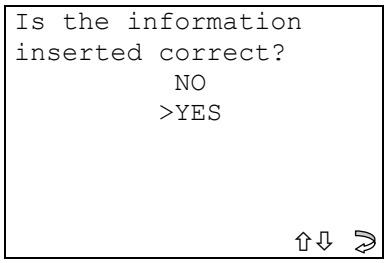
To enter the user data the display will show:



- 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.**

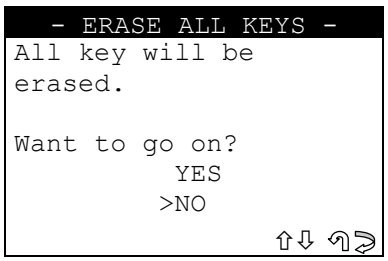


- Select YES/NO and press **ENTER.**
- **No**, to return to the data entry window.
- **Yes**, to store the data in the file.

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:

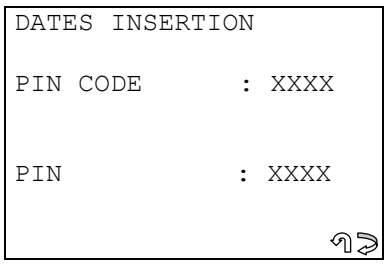


- Select and press **ENTER.**
- **No**, to return to the previous menu.
- **Yes**, to erase all the keys stored in the immobilizer memory.
- Select **ESC** to quit.

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

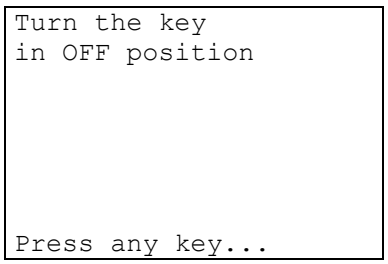
The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:
- Mechanical Code
- Car radio Code
- Secret Code (PIN CODE)

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



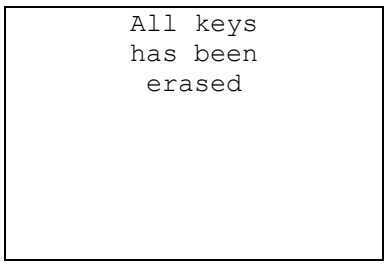
- Select **ESC** to quit.
- Press **ENTER** to continue.

There is already a key in the ON position on the ignition unit.
The display will show:



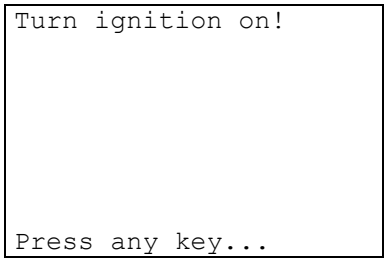
- Turn the key to the **OFF position** and press a key.

Deletion of all the keys then takes place.
After a few seconds (10"-40") the display will show:



- Deletion terminated.

After a few seconds the display will show:



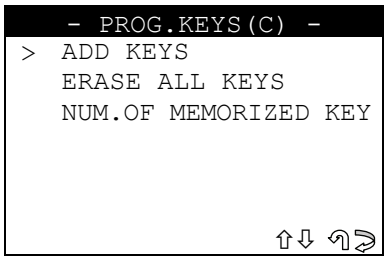
- Turn the key to the **ON position** and press a key.

1.1.3 PROGRAMMING KEYS (C)

This function is used to add keys to the immobilizer or erase them.
To programme new keys the **PIN CODE** must be known.

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

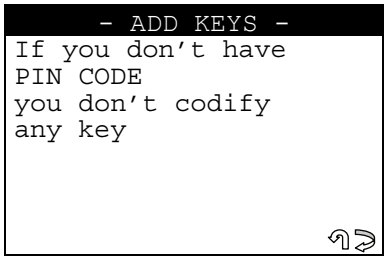
The display will show:



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:



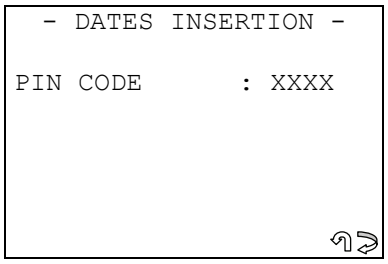
- The **PIN CODE** is required (secret number with 4 digits).

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:

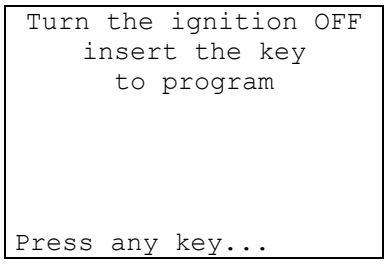


- Enter the **PIN CODE** and press **ENTER.**
- Select **ESC** to quit.
- Press **ENTER** to continue.

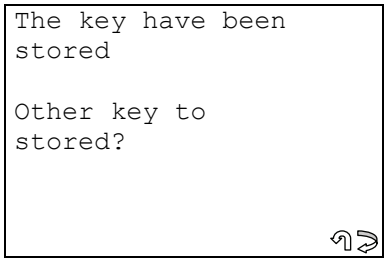
KEY PROGRAMMING

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 chap. WARNING/ERROR MESSAGES - Operating Manual SDD/SBB)
- If the PIN is correct the display will show:



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



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

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

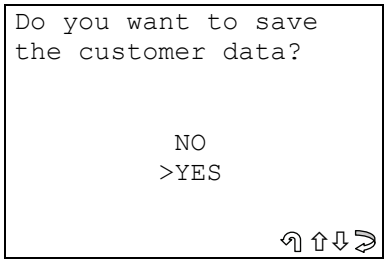
- Press **ESC** to go to archiving operation - user data.

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.**

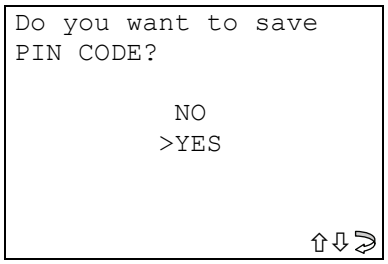
ARCHIVING OPERATIONS - USERS DATA

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



- 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.

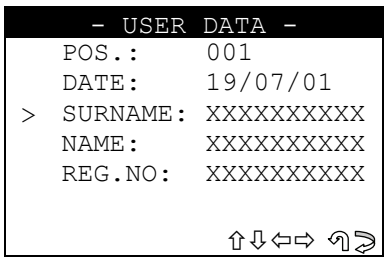
The display will show:



- 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

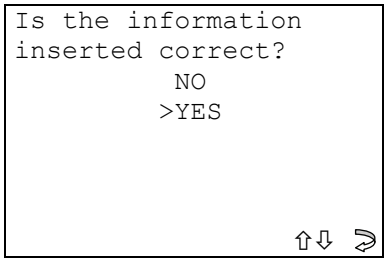
To enter the user data the display will show:



- 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.**



- 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**.

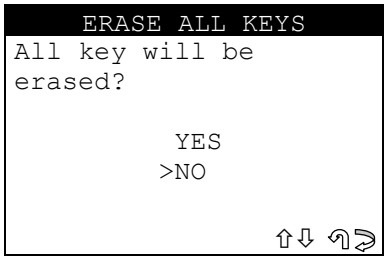
The PIN CODE is located on a card (similar to a credit card) handed to the customer on purchasing a car. The card gives the following information:

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

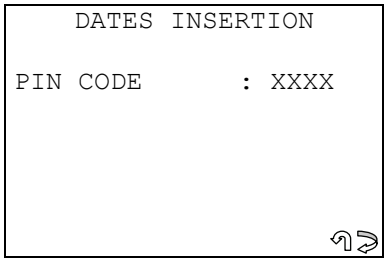
If the PIN CODE is lost, apply to an authorized OPEL® dealer for another one, providing the IMMO ID and car chassis number.

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

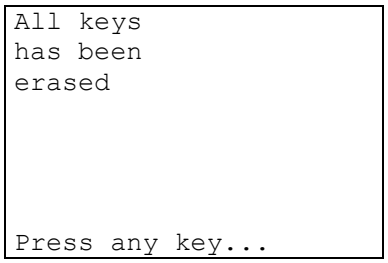
The display will show:



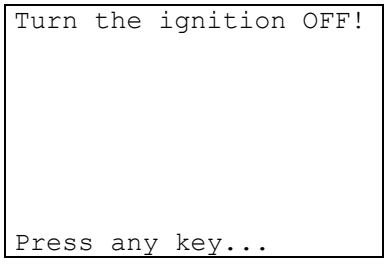
- Select YES/NO and press **ENTER.**
- **No**, to return to the previous menu.
- **Yes**, to erase all the keys stored in the immobilizer memory.
- Select **ESC** to quit.



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



- Press a key to continue

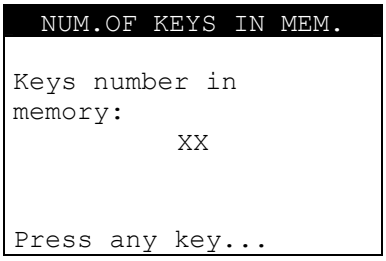


- Turn the key to the **OFF position** and press a key.

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:

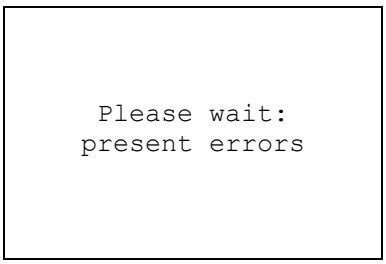


- Press a key to continue.

1.2 READ ERRORS

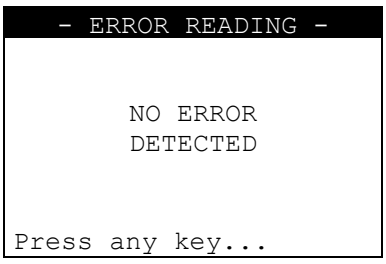
This function is used to check for any anomalies memorized in the immobilizer.

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



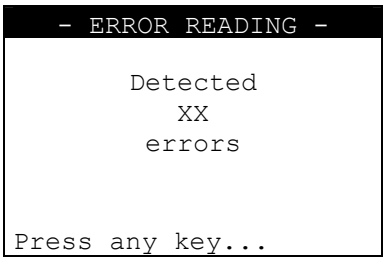
NO ERRORS

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



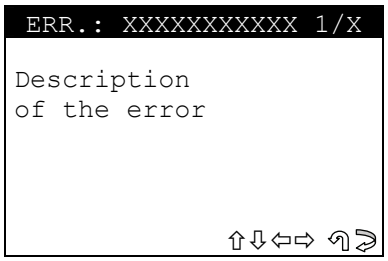
ERRORS FOUND

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



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

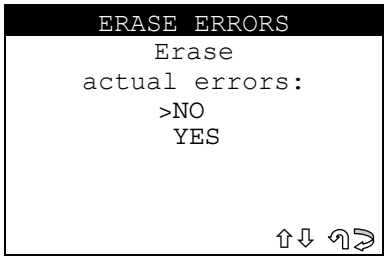
Press any key to see:



- **ERR: XXXXXXXXXXX** code for error found,
- Press ⇧⇩⇦⇨ to scroll all the errors found in sequence.
- Press **ESC** to return to the previous menu.

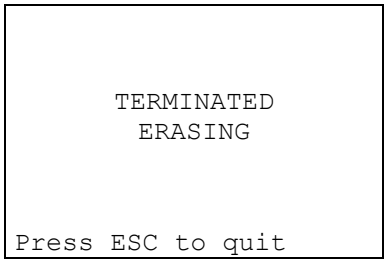
1.3 ERASE ERRORS

- Select "**ERASE ERRORS**" 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:

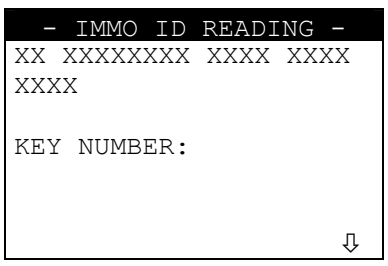


- Select **ESC** to return to the main menu.

1.4 IMMO ID READING

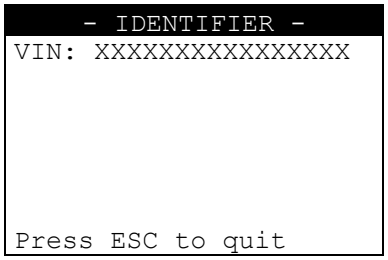
This function is used to view **immobilizer identification (ID IMMO**.), a code comprising alphanumerical characters essential for finding a missing **PIN CODE**; in such cases the PIN CODE is issued by the car manufacturer.

- 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.

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