



SDD
SilcaDiagnosticDevice

SBB

SW- PEUGEOT[®] -L0 (SDD/SBB)
SW- TOYOTA[®] PSA[®] (SDD/SBB)
SW- PEUGEOT[®] [CAN] -L0 (SDD/SBB)

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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.

SW-PRG. PEUGEOT® -L0 (SDD/SBB)




1



PEUGEOT®

The functions on these vehicles are:



- To program new keys (Max number of operational keys = 5);
- Add and/or delete remote controls (PROG. NEW KEYS A-C);
- Reading of the number of keys memorized;
- 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 OBD II [00] (STANDARD)</p>	<p style="text-align: center;">PIN CODE</p> <p style="text-align: center;">Comprising 4 alphanumeric characters. On the PASS CARD</p>
<p style="text-align: center;">PROG. NEW KEYS Procedures : A - B - C A - C = Chiavi e TLC (All keys or remote controls to be memorized) B = keys only (n° of keys free to memorize) New and/or Old Keys (Max 5)</p>	

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

WHERE TO FIND THE PLUG DIAGNOSTIC

 <p style="text-align: center;">C5</p>	 <p style="text-align: center;">C14</p>
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1.2 PROGRAMMING NEW KEYS

1.2.1 PROGRAMMING NEW KEYS (A)

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

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

The display will show:

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

The **PIN CODE** is required (secret number of 4 alphanumeric numbers).

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

The display will show:

```
- DATES INSERTION -
PIN CODE      : XXXX
Keys number   : Y
↩➤
```

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

The display will show:

```
INSERT THE (X)
KEY TO PROGRAM
TURN THE IGNITION ON
Press any key...
```

Programming of the keys in the car now begins.

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

If the key has been programmed properly, the display will show:

```
THE KEY (X)
IS PROGRAMMED
TURN THE IGNITION OFF
Press any key...
```

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

Repeat this operation for all the keys to be programmed.

If an error has occurred during programming, msg appears [ERROR 5] (see ch."WARNING/ERROR MESSAGES" of the Operating manual).

REPROGRAMMING REMOTE CONTROLS

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

```
PROGRAM TLC
Insert a key.
Turn it "ON".
Push TLC for 10 s.
Remove the key.
Repeat for all the
TLC

Press any key...
```

Carry out in the same order:

- Fit a key (Memorized) into the ignition block and turn to the ON position;
- Hold down the door-unlocking key on the remote control for 10 seconds;
- Repeat this operation for all the remote controls to be programmed, using different keys;
- Press any key to continue.

```
At the end lock the
car with a TLC and
wait 2 min. before
doing any operation.

Press any key...
```

Carry out in the same order:

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

If an error has occurred during programming, msg appears [ERROR 6] (see ch."WARNING/ERROR MESSAGES" of the Operating manual).

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

When the programming operation is complete, the display will show:

```
Do you want to save
the 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.

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
↑↓⇐⇒↵
```

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

The following data will be saved automatically:

- **POS.:** Position in which the information will be saved;
- **DATE:** Date of the operation;
- **MAKE:** Car make for which the keys have been memorized;
- **MODEL:** Car for which the keys have been memorized;
- **YEAR:** of the model;
- **Keys mem.:** Number of keys memorized
- **PIN CODE:** (if memorization is confirmed by the operator)
- **IMMO ID:** Immobilizer identification

To enter the data:

- Use the keys ↑↓ to position the cursor on the item required;
- Press ⇒ to enter and select the field in which to digit the text;
- Press **ENTER** to confirm;
- Select **ESC** to quit and memorize the data.

```
Are 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.
- Press **ESC** to quit.

1.2.2

PROGRAMMING NEW KEYS (B)

This function can be used to add keys to the immobilizer or delete them.

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

```
PROG.NEW KEYS (B)
If you don't have
PIN CODE
you don't codify
any key.
↵⇒
```

The PIN CODE is required (secret number of 4 alphanumeric characters).

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

The display will show:

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

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

```
DATES INSERTION  
PIN CODE      : XXXX  
Keys number   : Y  
  
↩ →
```

- Enter the **PIN CODE** and press **ENTER**;
- Enter the Number of keys to be stored in the memory and press **ENTER**;
- Press **ESC** to quit;
- Press **ENTER** to continue.

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

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

```
INSERT THE (X)  
KEY TO PROGRAM  
TURN THE IGNITION ON  
  
Press any key...
```

Programming of the keys in the car now begins.

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

If the key has been programmed properly, the display will show:

```
THE KEY (X)
IS PROGRAMMED
TURN THE IGNITION OFF

Press any key...
```

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

Repeat this operation for all the keys to be programmed.

If an error has occurred during programming, msg appears [ERROR 5] (see ch."WARNING/ERROR MESSAGES" of the Operating manual).

TESTING THE KEY

ATTENTION: To check that the memorized keys and remote controls, 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

(The flow chart is the same as that described on page 6).

1.2.3 PROGRAMMING NEW KEYS (C)

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

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

The display will show:

```
PROGR.NEW KEYS(C)

If you don't have
PIN CODE
you don't codify
any key.

↩
```

The **PIN CODE** is required (secret number of 4 alphanumeric characters).

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

The display will show:

```
Turn the ignition ON!


Press any key...
```

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

```

- DATES INSERTION -

PIN CODE      : XXXX
N.ro remote   : X
Keys number   : Y
  
```



- Enter the **PIN CODE** and press **ENTER**;
- Enter the number of keys to be programmed and press **ENTER**.
- Enter the Number of remote controls to be programmed and press **ENTER**.
- Press **ESC** to quit;
- Press **ENTER** to continue.

```

PROGRAM TLC

Push the [X]
REMOTE CONTROL
  
```

Programming of the remote controls in the car now begins.

- Press the unlock key on the remote control to be programmed;
- If the remote control is recognized the display will automatically show:

```

THE REMOTE CONTROL [X]
IS PROGRAMMED
  
```

Repeat the procedure for all the remote controls to be programmed.

If an error has occurred during programming, msg appears [ERROR 6] (see ch."WARNING/ERROR MESSAGES" of the Operating manual).

```

INSERT THE (X)
KEY TO PROGRAM
TURN THE IGNITION ON
  
```

Programming of the keys in the car now begins.

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

If the key has been programmed properly, automatically the display will show:

```
THE KEY (X)
IS PROGRAMMED
TURN THE IGNITION OFF
```

```
Press any key...
```

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

Repeat this operation for all the keys to be programmed.

If an error has occurred during programming, msg appears [ERROR 5] (see ch."WARNING/ERROR MESSAGES" of the Operating manual).

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

(The flow chart is the same as that described on page 6).

1.3 NUMBER OF KEYS MEMORIZED

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

After selection the display will show:

```
Keys number in
memory:
  XX
```

```
Press any key...
```

- Press any key to continue.

1.4 READING IMMO ID

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

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

```
- IMMO ID READING -
```

```
IMMO ID:
XXXXXXXXXX
```

```
Press ESC to quit
```

- Press **ESC** to quit.

1.5

ERRORS

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

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

```
Please wait:
Present errors
```

NO ERRORS

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

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

- Press any key.

ERRORS FOUND

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

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

Press any key to view a description of the error:

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

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

The display will show:

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

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

1.6

DELETING ERRORS

First select then press **ENTER**, the display will show:

```
- ERRORS RESET -
Delete
actual errors:
  >NO
  YES
↑↓ ↻
```

- Select and press **ENTER**.
- **No**, returns to the previous menu.
- **Yes**, deletes the errors memorized.
- Select **ESC** to quit.

The display will show:

```
TERMINATED
ERASING

Press ESC to quit
```

- Select **ESC** to quit.

SW-PRG. TOYOTA® PSA® (107) – L0 (SDD/SBB)

2




TOYOTA® PSA® (107)



The functions on these vehicles are:

- To program new keys (if there is at least one operating key);
- Delete the code for a missing key from the immobilizer memory;
- Add and delete remote controls;
- Delete any errors in the immobilizer memory.

ATTENTION: the programming system for TOYOTA® PSA® joint venture models is structured so that keys can be added individually to the immobilizer system. This function requires at least one operating key; otherwise the immobilizer central control unit must be replaced.

To make use of this function, use:

	 <p style="text-align: center;">SWITCH ADAPTER</p>
 <p style="text-align: center;">CAVO OBD II [00] (STANDARD)</p>	
<p style="text-align: center;">At least one operating key</p>	

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

WHERE TO FIND THE PLUG DIAGNOSTIC

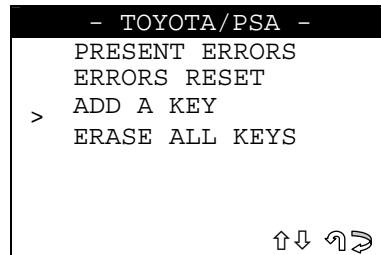


TOYOTA® PSA® FUNCTIONS MENU

The following is the structure of the **TOYOTA® PSA®** function menu:

- There is a key already in the ignition unit, turned to the **ON** position.

The display will show:



- Select and press **ENTER**.

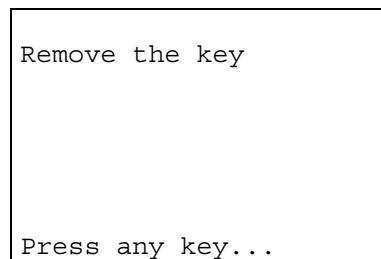
2.1

ADD A KEY

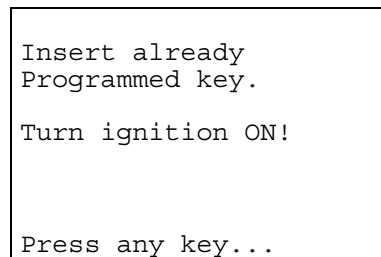
This function is used to add a key to the immobilizer.

- Select "**ADD A KEY**" and press **ENTER**.

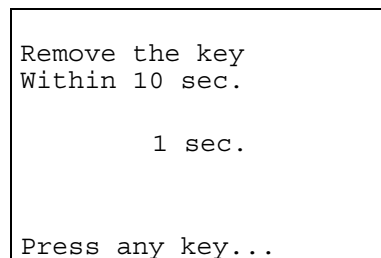
The display will show:



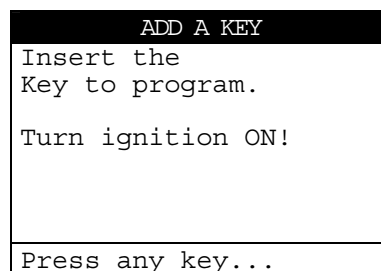
- Remove the key from the ignition block and press any button (within 5 seconds).



- Insert a programmed key into the ignition block, turn to the **ON** position and press any button (within 5 seconds).



- Remove the programmed key from the ignition block and press any button (within 10 seconds).



Insert the **key to be programmed** into the ignition block.

- Turn the key to the **ON position** and press a key (within 10 seconds).

The display will show:

```
Safety access
procedure

Elapsed time:
0:00 / 1:00
```

A dialogue now begins between the device and the immobilizer central control unit, which may last up to 60 seconds.

If communication and data exchange have taken place successfully, the display will show:

```
The key has been
stored.

Press any key...
```

The key in the ignition block is programmed.

- Press any key to continue.

ATTENTION: the new remote control for the key is not programmed automatically when the key is programmed. It must be memorized manually by means of the procedure described below (all remote controls, including the ones in use, must be re-memorized):

- Make sure all the vehicle doors and boot are closed.
- Open the driver's side door
- Insert the key into the block and leave in the **OFF** position

STAGE 1

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

STAGE 2 (da effettuare in 40 secondi)

- Close then open the driver's side door
- Close then open the driver's side door
- Turn the key to the **ON** position
- Turn the key to the **OFF** position

STAGE 3 (within 40 seconds)

- Close then open the driver's side door
- Close then open the driver's side door
- Close the driver's side door and lock all the doors with the safety button

STAGE 4 (within 40 seconds)

- Turn the key to the **ON** position
- Turn the key to the **OFF** position
- Turn the key to the **ON** position
- Turn the key to the **OFF** position
- Unlock the doors with the safety button.

STAGE 5 (observe locking/unlocking of the doors)

- There are three possibilities:

CASE 1	SITUATION
The doors locked/unlocked twice	Continue with STAGE 6
CASE 2	SITUATION
The doors did not lock/unlock	Check that the contact on the driver's side door and the centralised closing system are working, then start the procedure again
CASE 3	SITUATION
The doors locked/unlocked more than twice	Wait 1 minute then start the procedure again

STAGE 6

- For two times, one after the other, press the closing button on each high frequency remote control to be programmed (including those already in operation).

STAGE 7 (observe locking/unlocking of the d)

- There are three possibilities:

CASE 1	SITUATION
The doors locked/unlocked once.	The remote control is programmed
CASE 2	SITUATION
The doors locked/unlocked twice consecutively.	The remote control is not programmed properly. Try pressing the closing button on the remote control twice in a row
CASE 3	SITUATION
The doors did not lock/unlock.	Check that the contact on the driver's side door and the centralised closing system are working and start the procedure again

USER DATA ARCHIVE

To enter user data, the display will show:

```
- USER DATA -
POS. : 001
DATA: 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.: Position in which the information will be saved;
- DATE: Date of the operation;
- MAKE: Car make for which the keys have been memorized;
- MODEL: Car for which the keys have been memorized;
- YEAR: of the model;
- Keys mem.: Number of keys memorized
- PIN CODE: (if memorization is confirmed by the operator)
- **IMMO ID**: Immobilizer identification.

To enter the data:

- Use the keys ↑↓ to position the cursor on the item required;
- Press ⇒ to enter and select the field in which to digit the text;
- Press **ENTER** to confirm;
- Select **ESC** to quit and memorize the data.

```
Are 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.
- Press **ESC** to quit.

2.2

ERASE ALL KEYS

This function is used to delete all the keys programmed in the immobilizer (with the exception of the one in the block).

- To activate the function select "**ERASE ALL KEYS**" and press **ENTER**;

The display will show:

```
Remove the key

Press any key...
```

- Remove the key from the ignition block.
- Press any key (within 5 seconds).

Turn the ignition ON!

Press any key...

- Insert a programmed key into the ignition block.
- Turn it to the **ON** position and press any button (within 5 seconds).

Remove the key
Within 10 sec.

1 sec.

Press any key...

- Remove the programmed key from the ignition block.
- Press any key (within 10 seconds).

Turn ignition ON!
Within 10 sec.

Press any key...

- Insert the programmed key into the ignition block.
- Press any key (within 10 seconds).
- The display will show:

All keys
have been erased

Press any key...

- All the keys, with the exception of the one previously used, have been deleted.
- Press any key to continue.

2.3 ERRORS READING

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

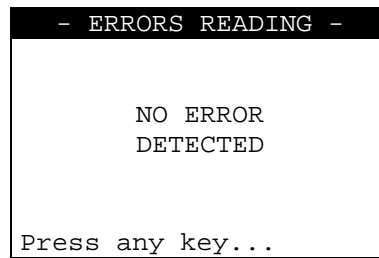
- To activate the function select "**ERRORS READING**" and press **ENTER**".

The display will show:

Please wait:
errors reading

NO ERROR DETECTED

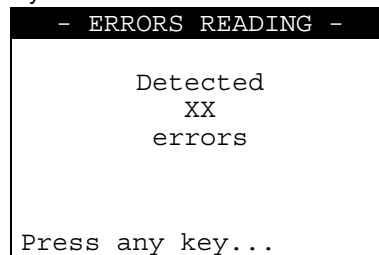
If there are no anomalies in the memory, the display will show:



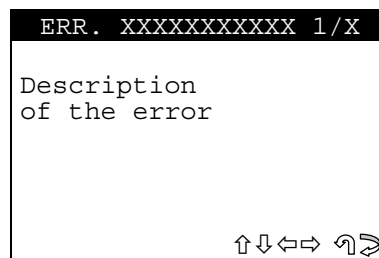
Press any key.

ERRORS DETECTED

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



Press any key to view a description of the error:



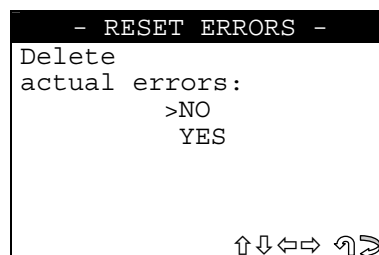
- **ERR:** XXXXXXXXXXXX error code;
- Press ↑↓↔⇒ to scroll all the errors found in the memory;
- Press **ESC** to quit;

2.4

ERRORS RESET

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

- To activate the function select "**ERRORS RESET**" and press **ENTER**".
- The display will show:



- Select YES/NO and press ENTER;
- No, returns to the previous menu;
- Si, deletes the errors memorized;
- Select **ESC** to quit.

The display will show:

```
TERMINATED
ERASING

Press ESC to quit
```

- Select **ESC** to quit.

SW-PRG. PEUGEOT® [CAN] – L0 (SDD/SBB)

3

PEUGEOT® [CAN]




The functions on these vehicles are:



- To program new keys in the immobilizer also when all the original keys are missing;
- Delete the code for a missing key from the immobilizer memory;
- Add and delete remote controls;
- Check how many keys are stored in the immobilizer memory;
- View the immobilizer ID (ID IMMO);
- Delete any errors in the immobilizer memory.

ATTENTION: the programming system for the PEUGEOT® group is structured so that whenever programming is carried out it is necessary to memorize again all the keys and remote controls to be used with the vehicle; it is therefore not possible to add/delete a single key individually.

If the wrong PIN CODE is entered 3-10 times consecutively, according to the model, the centralized immobilizer unit is blocked.

To make use of this function, use:

	 <p>SWITCH ADAPTER</p>
 <p>CAVO OBD II [00] (STANDARD)</p>	<p>PIN CODE</p> <p>Made up of 4 alphanumeric characters. Found on the PASS CARD</p>
<p>PRG. NEW KEYS (All the keys or remote controls to be memorized)</p>	

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

WHERE TO FIND THE PLUG DIAGNOSTIC



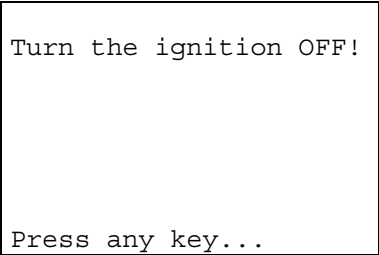
3.1

PEUGEOT® [CAN] FUNCTIONS MENU

The following is the structure of the PEUGEOT® [CAN] function menu:

- There is a key already in the ignition unit, turned to the **ON** position.

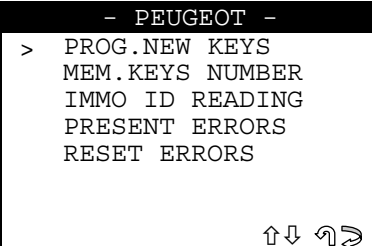
The display will show:



```
Turn the ignition OFF!
```

```
Press any key...
```

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



```
- PEUGEOT -  
> PROG.NEW KEYS  
MEM.KEYS NUMBER  
IMMO ID READING  
PRESENT ERRORS  
RESET ERRORS  
  
↑↓ ↻
```

- Select and press **ENTER**.

3.2

PROGRAMMING NEW KEYS

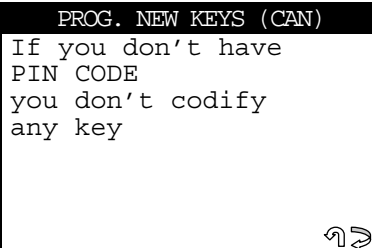
3.2.1

PROGRAMMING NEW KEYS (CAN)

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

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

The display will show:

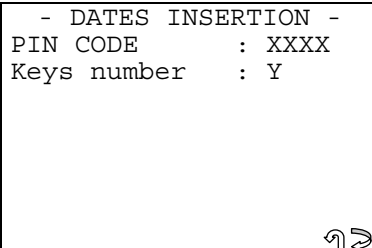


```
PROG. NEW KEYS (CAN)  
If you don't have  
PIN CODE  
you don't codify  
any key  
  
↻
```

The **PIN CODE** is required (secret number of 4 alphanumeric numbers).

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

The display will show:



```
- DATES INSERTION -  
PIN CODE : XXXX  
Keys number : Y  
  
↻
```

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

The display will show:

INSERT THE (X)
KEY TO PROGRAM
TURN THE IGNITION ON

Press any key...

Programming of the keys in the car now begins.

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

If the key has been programmed properly, the display will show:

THE KEY (X)
IS PROGRAMMED
TURN THE IGNITION OFF

Press any key...

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

Repeat this operation for all the keys to be programmed.

If an error has occurred during programming, msg appears [ERROR 5] (see ch."WARNING/ERROR MESSAGES" of the Operating manual).

REPROGRAMMING REMOTE CONTROLS

When key programming is finished the remote controls incorporated in the keys are re-programmed. Check that all the remote controls work properly. If not, they must be re-synchronised by means of the manual procedure described below:

Carry out in the following order:

- Insert a key (Memorized) into the control panel and turn to the **ON** position;
- Hold down for 10 seconds the door-opening button on the remote control;
- Repeat the operation for all the remote controls to be programmed, using different keys;
- Remove all the keys from the vehicle;
- Close the vehicle using one of the remote controls just memorized;
- Wait 2 minutes before carrying out any operation whatsoever on the vehicle.

TESTING KEY- REMOTE CONTROLS

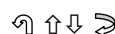
ATTENTION: to check that the memorized keys and remote controls work, test that all the remote controls lock and unlock the car and that the memorized keys start the engine (always leave an interval of 30-40 sec. between ignitions). If the test is negative, repeat the operation.

ARCHIVING OPERATIONS - USERS DATA

When the programming operation is complete, the display will show:

Do you want to save
the 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.

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

↑↓↔⇒

```

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

The following data will be saved automatically:

- **POS.**: Position in which the information will be saved;
- **DATE**: Date of the operation;
- **MAKE**: Car make for which the keys have been memorized;
- **MODEL**: Car for which the keys have been memorized;
- **YEAR**: of the model;
- **Keys mem.**: Number of keys memorized
- **PIN CODE**: (if memorization is confirmed by the operator)
- **IMMO ID**: Immobilizer identification

To enter the data:

- Use the keys $\uparrow\downarrow$ to position the cursor on the item required;
- Press \Rightarrow to enter and select the field in which to digit the text;
- Press **ENTER** to confirm;
- Select **ESC** to quit and memorize the data.

```

Are 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;
- Press **ESC** to quit.

3.3 NUMBER OF KEYS MEMORIZED

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

After selection the display will show:

```

Keys number in
memory:
      XX

Press any key...

```

- Press any key to continue.

3.4 READING IMMO ID

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

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

```
- IMMO ID READING -  
  
IMMO ID:  
XXXXXXXXXX  
  
Press ESC to quit
```

- Press **ESC** to quit.

3.5 ERRORS READING

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

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

```
Please wait:  
errors reading
```

NO ERROR DETECTED

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

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

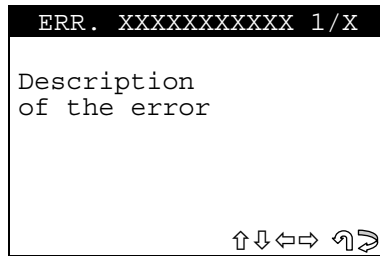
- Press any key.

ERRORS DETECTED

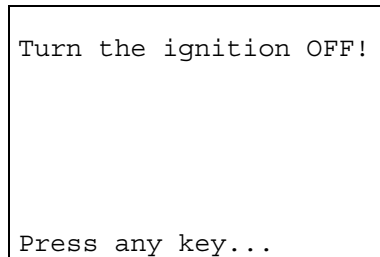
If there are anomalies in the memory the display will show how many (XX) errors there are in the centralized unit memory:

```
- ERRORS READING -  
  
Detected  
XX  
errors
```

Press any key to view a description of the error:



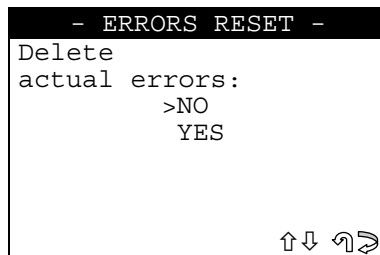
- **ERR: XXXXXXXXXXXX** error code;
 - Press $\uparrow\downarrow\leftrightarrow$ to scroll all the errors found in the memory;
 - Press **ESC** to quit;
- The display will show:



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

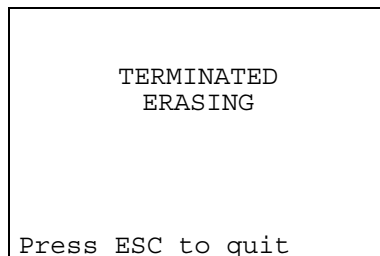
3.6 RESET ERRORS

First select then press **ENTER**, the display will show:



- Select **YES/NO** and press **ENTER**;
- **No**, returns to the previous menu;
- **Si**, deletes the errors memorized;
- Select **ESC** to quit.

The display will show:



- Select **ESC** to quit.