



**SDD**  
SilcaDiagnosticDevice

**SBB**

**SW-NISSAN<sup>®</sup> -L0 (SDD/SBB)**

CODE: D431938XA - VERS. 4.0



## INDEX

<b>1</b>	<b>NISSAN®</b> .....	<b>3</b>
<b>2</b>	<b>FUNCTIONS MENU NISSAN®</b> .....	<b>4</b>
2.1	PROGRAMMING NEW KEYS .....	5
2.1.1	PROGRAMMING NEW KEYS (A) .....	5
2.1.2	PROGRAMMING NEW KEYS (B) .....	7
2.2	ERRORS .....	10
2.3	DELETING ERRORS .....	11
<b>3</b>	<b>NISSAN® SMART KEY (INTELLIGENT KEY)</b> .....	<b>12</b>
<b>4</b>	<b>NISSAN® SMART KEY (INTELLIGENT KEY) FUNCTIONS MENU</b> .....	<b>14</b>
4.1	PROGRAMMING NEW KEYS .....	15
4.1.1	NUMBER OF KEYS MEMORIZED .....	17
<b>5</b>	<b>REMOTE CONTROL FUNCTIONS MENU NISSAN® SMART KEY (INTELLIGENT KEY)</b> .....	<b>18</b>
5.1.1	RKE PROGRAM .....	18
5.1.2	DELETE RKE .....	19
5.1.3	NUMBER OF RKE MEMORIZED .....	20

**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. NISSAN®-L0 (SDD/SBB)

1

## NISSAN®




The functions on these vehicles are:

- **Programme** new keys (Max number of operational keys = 4);
- (PROG. NEW KEYS (A) and PROG. NEW KEYS (B));
- Read the errors present;
- Delete all errors.

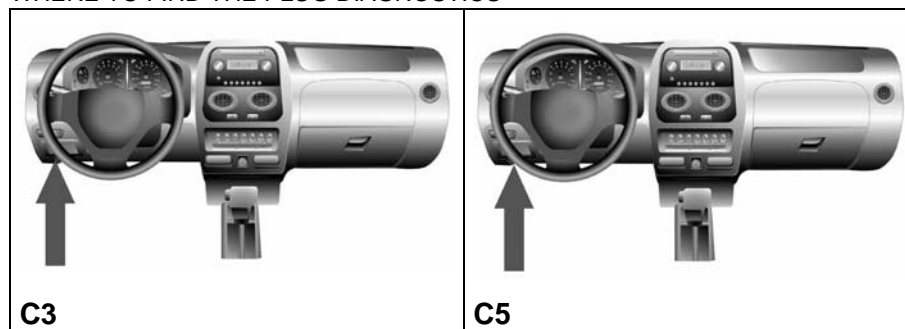
To make use of this function, use:

	 SWITCH ADAPTER
 CABLE OBD II [00] (STANDARD)	 NISSAN ADAPTER [07] (OPTIONAL *)
 NISSAN CABLE [05] (OPTIONAL *)	Only for PROG. NEW KEYS (B) NOT for PROG. NEW KEYS (A)  <b>PIN CODE</b> Comprising 4 alphanumeric characters On an adhesive label attached to the vehicle maintenance booklet  In the event of loss, apply to the dealer
New and/or Old Keys (Max 4) (All those to be enabled)	

OPTIONAL \* = STANDARD for SDD USA CAN BUS

SBB	CABLE/ADAPTER
	 CABLE OBD II [00] (STANDARD)
	 NISSAN CABLE [05] (OPTIONAL)

## WHERE TO FIND THE PLUG DIAGNOSTICS



## 2 FUNCTIONS MENU NISSAN®

### 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
- TYPE OF FUEL (Petrol or Diesel)

With cars produced between 1998-99 that use the OBD II cable (00) SDD/SBB may be unable to recognize automatically the procedure to use. In such cases proceed as follows:

- Select MODEL ⇔ MODEL ⇔ YEAR, if communication does not take place between SDD/SBB and the central unit, the following message appears: ERROR 1 or ERROR 2 or ERROR 3 (see chapter "WARNING/ERROR MESSAGES" of the Operating manual). Fit the NISSAN® adapter and relaunch the procedure.

- NISSAN -	
MICRA	(96-98)
MICRA	(98-00)
MICRA	(00-)
MICRA VAN	(00-00)
> MICRA VAN	(00-)
PRIMERA	(97-98)

↑↓↔↷

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

### FUNCTIONS MENU

This section allows the functions to be carried out, in particular to:

- 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;
- Delete any errors in the immobilizer memory.

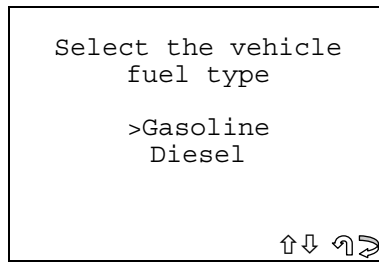
**ATTENTION:** the programming system for the NISSAN® group is structured so that every time programming takes place all the keys that will be used on the given car must be memorized again. It is therefore not possible to add/delete a single key individually.

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

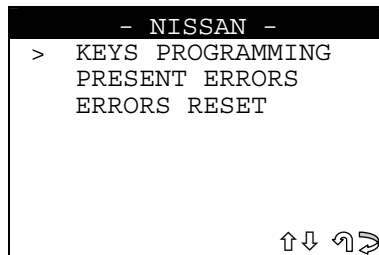
The menu for NISSAN® functions has the following structure:

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

- The display shows:



- Select Petrol/Diesel and press **ENTER**;
- **No**, returns to the **Car selection menu**;
- **Yes**, proceeds with programming the keys;
- Press **ESC** to quit.



Select and press **ENTER**.

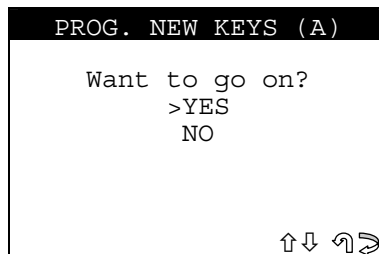
## 2.1 PROGRAMMING NEW KEYS

### 2.1.1 PROGRAMMING NEW KEYS (A)

This function is used to add or delete keys in the immobilizer (without using the PIN CODE).

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

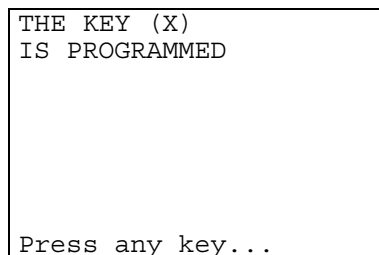
The display will show:



- Select YES/NO and press **ENTER**;
- **No**, to return to the screen showing **IMMOBILIZER functions menu**;
- **Yes**, to programme the new key;
- **ESC** to quit.

Programming of the keys in the car now begins.

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



- **Press any key to continue.**

```

Insert other keys to
be programmed by
positioning them for
5 sec to ON and 5
sec to OFF.
Then start engine
for some seconds

Press any key...

```

- In sequence enter the remaining keys to be programmed, turning them to the **ON** position for 5 seconds then to the **OFF** position for 5 seconds;
  - To end the procedure start the car for a few seconds.
- If an error has occurred during programming, an message will appear ERROR 1 (see chapter "WARNING/ERROR MESSAGES" of the Operating manual).

### TESTING THE KEY

**ATTENTION:** To check operation of the keys, try starting the car with the memorized keys (wait 30-40 sec. between one ignition and another). If this does not work, repeat the memorizing operation.

### ARCHIVING OPERATIONS - USERS DATA

To enter user data the display will show:

```

Do you want to save
the data?

NO
>YES

↑↓↔➤

```

- Select YES/NO and press **ENTER**;
- **No**, to return to the screen showing **IMMOBILIZER functions menu**;
- **Yes**, proceeds with memorizing the data for the operation just concluded;
- **ESC** to quit.

### ARCHIVING USERS DATA

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 / REG.NO (optional) (**12 characters**).
- The following data will be saved automatically:
- **POS.:** Position in which the data will be saved;
  - **DATE:** Date of the operation;
  - **MAKE:** Vehicle make for which memorization has taken place;
  - **MODEL:** Vehicle for which memorization has taken place;
  - **YEAR** of the model;
  - **Keys Mem.:** number of keys memorized;
  - **PIN CODE:** (if memorization is confirmed by the operator);
  - **IMMO ID:** Central immobilizer unit identification.

To enter the data:

- Use the ↑↓ keys to go to the item required;
- Press ⇒ to enter and select the field in which the text will be entered;
- Press **ENTER** to confirm;
- Select **ESC** to quit and save the data.

Are information  
inserted correct?

NO  
>YES

↑↓ ↵ ⇒

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

## 2.1.2

### PROGRAMMING NEW KEYS (B)

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

To programme new keys the PIN CODE (reserved number of 4 alphanumeric characters) must be known. This code is provided with the vehicle on consignment to the purchaser and is located on an adhesive label often applied by dealers to the car maintenance handbook and recorded in their DATABASE.

Should the PIN CODE be mislaid, application is made for a replacement to the dealer (preferably the one who sold the car), communicating:

- The chassis number;
- Production site of the immobilizer;
- First immobilizer code;
- Second immobilizer code.

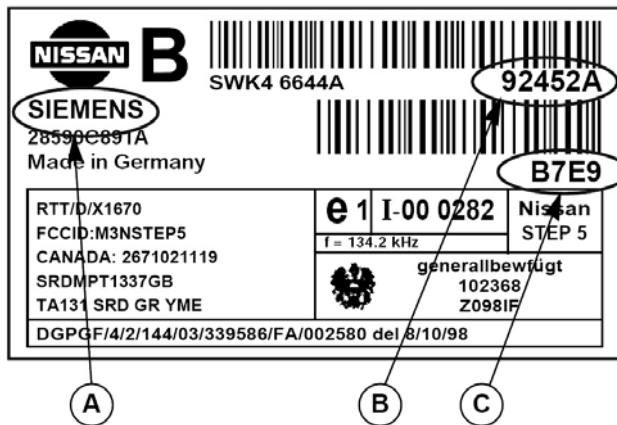
Chassis number, found in the vehicle handbook or stamped on a metal plate located inside the engine bonnet.

The other data are found in the actual immobilizer central unit. To consult them, loosen the screws on the steering column and remove the plastic shells; the immobilizer central unit is attached to the steering block.

Communicate the data stamped on the label: (label **A** or **B**, according to the model) attached to the immobilizer central unit, as illustrated below:

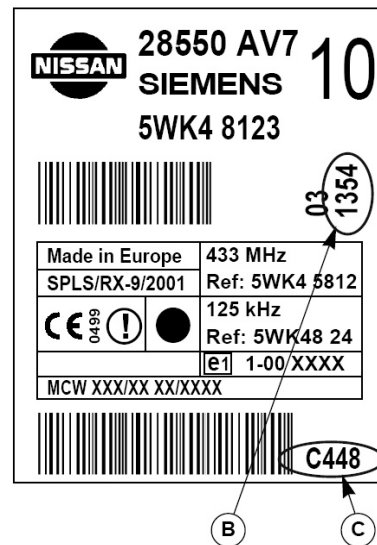
### TYPE "A" LABEL

- Production site (A): MADE IN GERMANY
- First code (B): 92452A
- Second code (C): 87E9



### TYPE "B" LABEL

- Production site (A): **NOT REQUIRED**
- First code (B): **92452A**
- Second code (C): **87E9**



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
↵
```

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

The display will show:

```
- DATES INSERTION -
PIN CODE          : XXXX
↵
```

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

Programming of the keys in the car now begins.

- If the wrong PIN code has been entered or errors have occurred during communication, the display will show an message ERROR 1 (see ch. "WARNING/ERROR MESSAGES" of the Operating manual);
- If the PIN is correct and the key is properly programmed, the display will show:

```
Turn the ignition OFF!

Press any key...
```

Press any key to continue.

```
Insert keys to be
programmed in
sequence and turn
them ON and OFF for
5 sec respectively.
Then start engine
for some seconds

Press any key...
```

- In sequence enter the remaining keys to be programmed, turning them to the **ON** position for 5 seconds then to the OFF position for 5 seconds.
- To end the procedure start the car for a few seconds.

If an error has occurred during programming, an message will appear ERROR 1 (see ch."WARNING/ERROR MESSAGES" of the Operating manual).

## TESTING THE KEY

**ATTENTION:** to check operation of the keys and remote controls memorized, try opening and closing the vehicle with all the remote controls and starting the vehicle with the keys memorized (wait 30-40 sec. between one ignition and another). If this does not work, repeat the memorizing operation.

## ARCHIVING OPERATIONS - USERS DATA

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

## 2.2 ERRORS

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

- After selecting, 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...
```

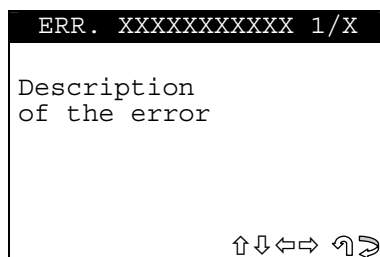
- Press any key.

### ERRORS FOUND

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

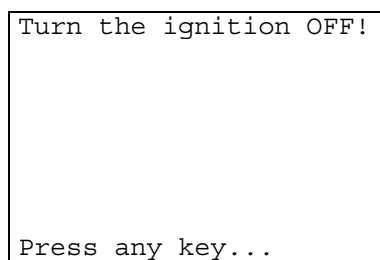
```
  - PRESENT ERRORS -
      Detected
      XX
      errors
      Press any key...
```

Press any key to view a description of the error:



- **ERR: XXXXXXXXXXXX** error code;
- Press  $\uparrow\downarrow\leftarrow\rightarrow$  to scroll all the errors found in the memory;
- Press **ESC** to quit.

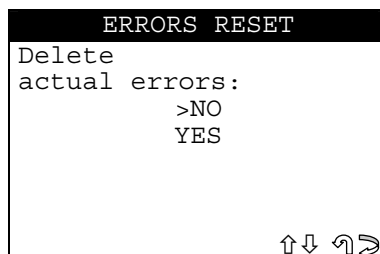
Select and press **ENTER**:



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

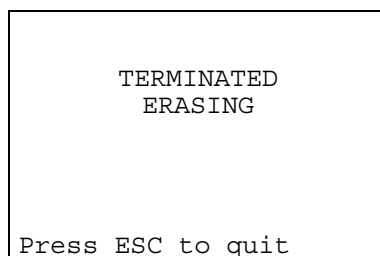
## 2.3 DELETING ERRORS

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



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

The display will show:



- Select **ESC** to quit.




### 3




## NISSAN® SMART KEY (INTELLIGENT KEY)

The functions on these vehicles are:

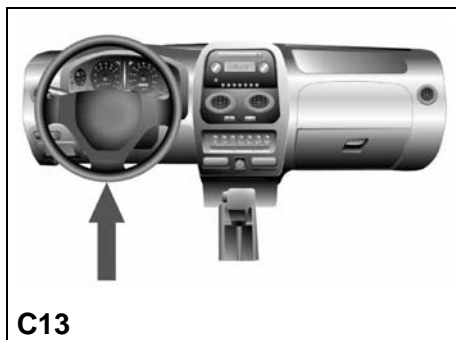
- To program new keys and remote controls (Max number of operational keys = 4);
- Read the errors;
- Delete all errors.

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;"><b>PIN CODE</b></p> <p>Comprising 12 alphanumeric characters Obtainable exclusively from NISSAN dealers by communicating VIN number and immobilizer code</p>
 <p style="text-align: center;">New and/or Old Keys (Max 4) (all those to be enabled)</p>	

<b>SBB</b>	<b>CABLE/ADAPTER</b>
	 <p style="text-align: center;">CABLE OBD II [00] (STANDARD)</p>
 <p style="text-align: center;">New and/or Old Keys (Max 4) (all those to be enabled)</p>	<p style="text-align: center;"><b>PIN CODE</b></p> <p>Comprising 12 alphanumeric characters Obtainable exclusively from NISSAN dealers by communicating VIN number and immobilizer code</p>

## WHERE TO FIND THE PLUG DIAGNOSTICS



### GENERAL INFORMATION

These immobilizer systems use a special type of key called “Intelligent” or “Smart” Key. This type of key comes with two independent electronic parts:

- 1) Active system remote control (with battery)
- 2) Passive system remote control (without battery)

When programming a key both the remote control (Remote Control Menu) and the transponder (Immobilizer Menu) parts must be programmed.

This immobilizer system works in the following ways:

#### **Turning off immobilizer by remote control**

When the door-opening remote control is activated the vehicle immobilizer and steering lock are automatically locked; the vehicle can then be started simply by using the ignition button (without using a mechanical key).

#### **Turning off immobilizer by key**

If the remote control battery is flat or does not work, the vehicle can be opened by means of the mechanical emergency key (incorporated in the head of the Intelligent Key).

After inserting the key in the ignition button, the vehicle immobilizer and steering lock are locked by the transponder in the key head; the vehicle can then be started by means of the ignition button.

## 4 NISSAN® SMART KEY (INTELLIGENT KEY) FUNCTIONS MENU

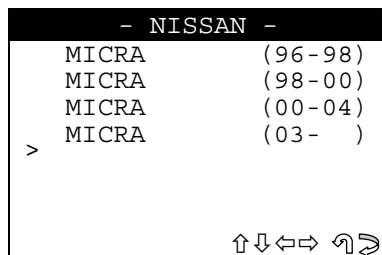
### SELECTING THE CAR MAKE

Select "IMMOBILIZER" from the main menu.

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
- TYPE OF FUEL



- Use the ↑↓ arrow keys to select the specific model.
- Check that the selected model uses a Smart key.
- Use the Help F1 key to check the information about the key, then press **ENTER**.
- Press **ESC** to quit.

### TRANSPONDER PROGRAMMING FUNCTIONS MENU [ROUTINE 66]

This section allows the functions to be carried out, in particular 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;
- Delete any errors in the immobilizer memory.

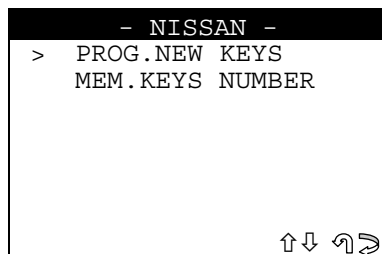
**ATTENTION:** the programming system for the NISSAN® group is structured so that every time programming takes place all the keys that will be used on the given car must be memorized again. It is therefore not possible to add/delete a single key individually.

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

The menu for IMMOBILIZER NISSAN® functions has the following structure:

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

If communication with the vehicle takes place successfully, the display will show:



Select and press **ENTER**.

## 4.1

### PROGRAMMING NEW KEYS

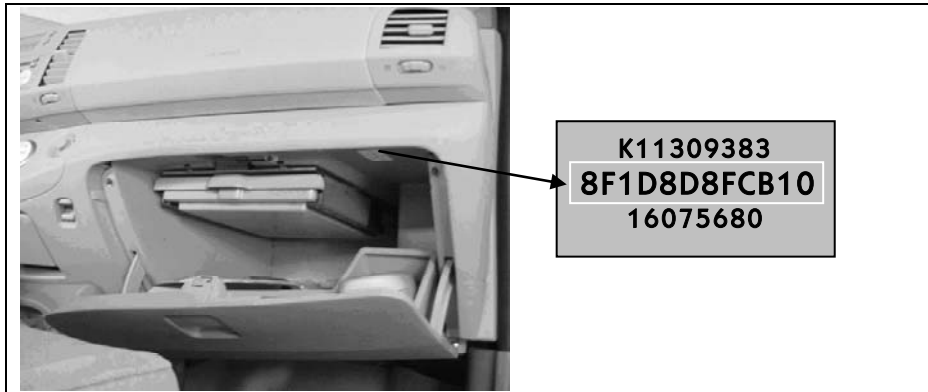
This function is used to add or delete Intelligent Keys in the immobilizer.

Operating but not programmed Intelligent Keys are disabled during this operation.

To programme them the PIN CODE must be known (secret number of 12 alphanumeric characters, according to the model). The code is issued by the NISSAN dealer on communication of the vehicle chassis number and immobilizer code.

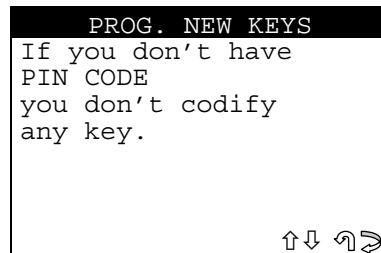
The chassis number is found in the vehicle log book or punched on a metal plate inside the engine bonnet.

The immobilizer code is an alphanumeric code of 12 digits. It is printed on a sticker placed inside the glove compartment on the passenger side (see figure).



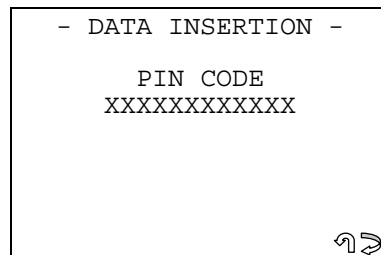
- To enable the function select "**PROG. NEW KEYS**" and press **ENTER**.

The display will show:

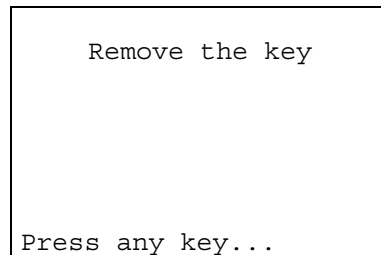


- Select **ESC** to return to the main menu;
- Press **ENTER** to continue;

The display will show:



- Insert the PIN CODE and press **ENTER**;
- Press **ESC** to quit;
- Press **ENTER** to continue.



- Remove the key (card) and press any key.

Programming of the keys in the car now begins.

If the wrong PIN code has been entered or errors have occurred during communication, the display will show an message (ERROR 4) (see ch. MESSAGGI DI SEGNALAZIONE/ERRORE of the Operating manual);

- If the PIN is correct the display will show:

A rectangular box representing the car's display. The text inside reads: "INSERT THE KEY TO PROGRAM TURN THE IGNITION ON" followed by "Press any key..." on a new line. At the bottom right of the box are three small navigation icons: an up arrow, a down arrow, and a right arrow with a curved tail.

- Insert the key (card) to be programmed;
- Turn the ignition **ON**;
- Press any key;
- If an error has occurred during programming, an message will appear (ERROR 5) (see chapter WARNING/ERROR MESSAGES of the Operating manual);
- If the key has been programmed properly, the display will show:

A rectangular box representing the car's display. The text inside reads: "The key is programmed! Other key to store?". At the bottom right of the box are three small navigation icons: an up arrow, a down arrow, and a right arrow with a curved tail.

- Press **ENTER** to programme another key (max. 4);

All the keys/cards to be used with the vehicle must be programmed;

- Press **ESC** to end programming and go to "**ARCHIVE USER DATA**".

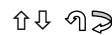
If 4 keys/cards are programmed, at the fourth key/card programmed the operation goes directly to "ARCHIVE USER DATA".

## ARCHIVING OPERATIONS - USERS DATA

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

A rectangular box representing the car's display. The text inside reads: "Do you want to save the data?".

NO  
>YES



- Select YES/NO and press ENTER;
- **No**, to return to the screen showing IMMOBILIZER functions menu;
- **Yes**, proceeds with memorizing the data for the operation just concluded;
- Press ESC to quit.

## ARCHIVING USERS DATA

To enter user data the display will show:

```
- USER DATA -
POS. : 001
DATE: 19/07/01
> SURNAME: XXXXXXXXXXXX
NAME: XXXXXXXXXXXX
REG.No:
XXXXXXXXXX
↑↓↔⇒↻
```

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

The following data will be saved automatically:

- **POS.:** Position in which the data will be saved;
- **DATE:** Date of the operation;
- **MAKE:** Vehicle make for which memorization has taken place;
- **MODEL:** Vehicle for which memorization has taken place;
- **YEAR** of the model;
- **Keys Mem.:** number of keys memorized;
- **PIN CODE:** (if memorization is confirmed by the operator);
- **IMMO ID:** Central immobilizer unit identification.

To enter the data:

- Use the ↑↓ keys to go to the item required;
- Press ⇒ to enter and select the field in which the text will be entered;
- Select and press **ENTER**;
- Select **ESC** to quit and save the data.

```
Are information
inserted correct?

NO
>YES

↑↓↻
```

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

### 4.1.1

## NUMBER OF KEYS MEMORIZED

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

- Make sure the key in the control panel is in the **ON** position;
- After selection the display will show:

```
- MEM. KEYS NUMBER -

Keys number in
memory:
XX

Press any key...
```

- Press any key to return to the main menu.

## 5 REMOTE CONTROL FUNCTIONS MENU NISSAN® SMART KEY (INTELLIGENT KEY)

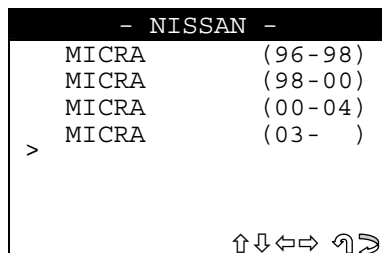
### SELECTING THE CAR MAKE

Select “**REMOTE CONTROLS**” from the main menu.

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
- TYPE OF FUEL



- Use the ↑↓ arrow keys to select the specific model.
- Check that the selected model uses a Smart key.
- Use the Help F1 key to check the information about the key, then press **ENTER**.
- Press **ESC** to quit

### REMOTE CONTROL PROGRAMMING FUNCTIONS MENU [ROUTINE 23]

This section allows the functions to be carried out, in particular to:

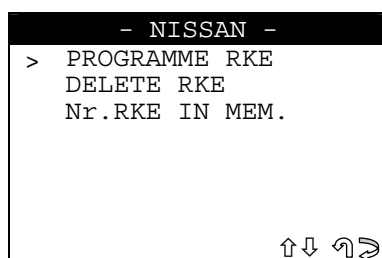
- Programme new REMOTE CONTROLS up to a maximum of 4;
- Delete all remote controls;
- Read the number of remote controls programmed.

**ATTENTION:** the REMOTE CONTROL programming system is possible only if there is at least one key with a programmed transponder and the PIN CODE is not required!

The NISSAN® REMOTE CONTROL functions menu is structured as follows:

- Turn the key to the ON position.

If communication with the vehicle takes place successfully, the display will show:



- Select and press **ENTER**.

#### 5.1.1 RKE PROGRAM

This function is used to add new remote controls.

- To enable the function select “**PROGRAMME RKE**” and press **ENTER**.

The display will show:

```
INSERT ALREADY  
PROGRAMMED KEY.  
  
TURN THE IGNITION ON!  
  
Press any key ...
```

- Insert into the control panel a key (mechanical) with a programmed transponder (see chapter "PROGRAMMING NEW KEYS").
- Turn the mechanical key to the **ON** position.
- Press any key to continue.

The display will show:

```
PUSH THE  
REMOTE CONTROL  
  
Press any key ...
```

- For a few seconds hold down any key on the remote control to be programmed, then release.
- If errors occur during programming, an error message will appear.

If the remote control has been memorized successfully, the display will show:

```
The remote control  
Is programmed.  
  
Other RKE  
to store?  
  
↩➡
```

- Press **ENTER** to programme another remote control (max. 4);
- Press **ESC** to end programming and go to "**ARCHIVE USER DATA**".

## 5.1.2

### DELETE RKE

This function is used to delete all the remote controls memorized in the vehicle. To enable the function select "**ERASE RKE**" and press **ENTER**.

The display will show:

```
- ERASE RKE -  
  
Want to go on?  
  
>YES  
NO  
  
↑↓ ↩➡
```

- Select YES/NO and press **ENTER**;
- **No**, return to the RKE functions menu;
- **Yes**, proceeds with deleting all the remote controls.

The display will show:

```
All the RKE
have been erased

Press any key ...
```

- Press any key to return to the main menu.

### 5.1.3 NUMBER OF RKE MEMORIZED

This function is used to view the number of remote controls in the memory.

- To enable the function select "**Nr. RKE in MEM.**" and press **ENTER**.
- The display will show:

```
RKE 1      "STATE"
RKE 2      "STATE"
RKE 3      "STATE"
RKE 4      "STATE"

Press any key ...
```

**"PROG"** status indicates that in position RKE "X" the remote control is programmed.

**"NOT PROG"** status indicates that in position RKE "X" the remote control IS NOT programmed.

- Press any key to return to the main menu.