

SDD
SilcaDiagnosticDevice

SBB

SW- VAG[®] GROUP-L0 (SDD/SBB)

Code: D431375XA - Vers. 2.0

GB

INDEX

1	VAG FUNCTIONS MENU (AUDI® - SEAT® - SKODA® - VOLKSVAGEN®).....	3
1.1	VAG GROUP.....	3
1.2	PROGRAMMING NEW KEYS.....	5
1.3	NUMBER OF KEYS MEMORIZED.....	8
1.4	READING IMMO ID.....	9
1.5	ERRORS.....	10
1.6	ERASE ERRORS.....	11





1 VAG FUNCTIONS MENU (AUDI®-SEAT®-SKODA®-VOLKSWAGEN®)


1.1 VAG GROUP

The functions on these vehicles are:

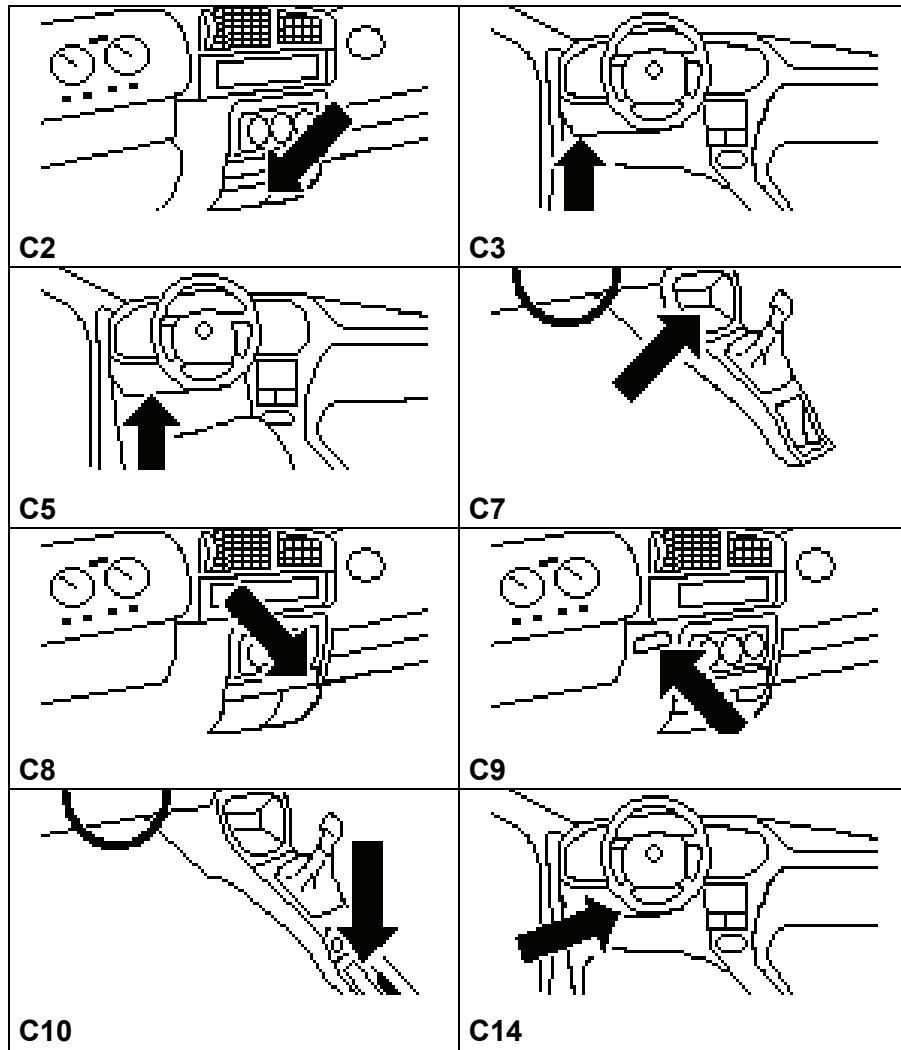
- Programme new keys (max. 8 keys in the memory);
- Reading of the number of keys memorized;
- Read IMMO ID;
- Read the errors present;
- Delete all errors.

To make use of this function, use:

	 <p style="text-align: center;">Switch Adapter</p>
 <p style="text-align: center;">CABLE OBDII [00] (STANDARD)</p>	 <p style="text-align: center;">CABLE VAG [01] (OPTIONAL)</p>
<p style="text-align: center;">New key/s All keys to be enabled (Max 8)</p>	<p style="text-align: center;">PIN CODE</p> <p style="text-align: center;">Comprising 4 alphanumeric characters</p> <p style="text-align: center;">On the label together with the mechanical code If applied for to the dealer, it will have 7 numbers and will have to use the function : CONV. 7-4</p>

SBB	CABLE/ADAPTER
	 <p style="text-align: center;">CABLE OBD II [00] (STANDARD)</p>
	 <p style="text-align: center;">CABLE VAG [01] (OPTIONAL)</p>

WHERE TO FIND THE PLUG DIAGNOSTICS



SELECTING THE CAR MAKE

In this case SDD/SBB is able to automatically recognize the various central units connected and therefore uses the right communication procedure. Simply identify:

- CAR MODEL
- YEAR OF MANUFACTURE

```
- VOLKSWAGEN -
BORA      (98- )
CADDY     (95-99)
CADDY     (00- )
> GOLF    (95-99)
GOLF      (00- )
GOLF CABRIO (95-99)
          ↑↓↔⇒ ↶↷
```

- 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:

- programme new keys in the immobilizer also when all the original keys are missing;
- erase the code for a missing key from the immobilizer memory;
- check how many keys are stored in the immobilizer memory;
- view the immobilizer ID (ID IMMO);
- erase any errors in the immobilizer memory.

ATTENTION: the programming system for the VAG® 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/erase a single key individually.

If the wrong PIN CODE is entered 3 times consecutively, the immobilizer unit will block. To release it, leave the key in the ON position (from 30 minutes to 24 hours, according to the vehicle).

The following is the structure of the VAG® function menu:

```
- VOLKSWAGEN -
> PROG.NEW KEYS
MEM.KEYS NUMBER
IMMO ID READING
PRESENT ERRORS
ERRORS RESET
          ↑↓ ↶↷
```

- Select and press **ENTER**.

1.2 PROGRAMMING NEW KEYS

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

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

The display will show:

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

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

The **PIN CODE** is located on the black plastic tag provided with the car key on purchase. The tag gives the mechanical code and the **PIN CODE** protected by a black plastic film (scrape off with a coin).

If the **PIN CODE** is lost, apply to a **VAG®** dealer for another one.

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

The display will show:

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

PIN            : XXXX
N. Keys        : 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.

The display will show:

```
CONNECTING ...

# # # # # # # # # #
```

- Wait a few seconds to communicate with the immobilizer.

If a wrong PIN has been entered or there are errors during communication, the display will show: **error message No. 1** (see Operating Manual chap. 10 – WARNING/ERROR MESSAGES).

MEMORIZING KEYS

If communication has been successful, the display will show:

```
COMMUNICATION OK!

Sequentially insert
the keys and turn each
one to the ON position

Press any key ...
```

Memorization of the keys in the car will now begin.

- **Insert all the keys to be memorized one after the other, turning each one to the ON position.**
If errors occur during programming, the immobilizer warning light (located on the dashboard) will flash rapidly. Repeat the operation.
- Press a key to continue; the display will show:

If the warning light
on the console is
blinking repeat the
procedure because an
error with the keys
has occurred

Press any key...

KEY TESTING

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

- Press a key to continue.

ARCHIVING OPERATIONS - USER DATA

All the operations carried out can be stored in the machine memory.

The display will show:

```
Do you want to save
the customer data

      NO
    >YES

      ↑↓↵
```

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

The display will show:

```
Do you want to save
PIN CODE?

      NO
    >YES

      ↑↓↵
```

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

USER DATA ARCHIVE

This section is used to enter the user data to be saved for the operation completed;

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 data will be saved;
- **DATA:** Date of the operation;
- **MAKE:** Car make for which the keys has been memorized;
- **MODEL:** Car for which the keys has 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.

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

The programming capacity of the archive is approx. around 100 users data.

Glossary:

Ô:	Deletes characters to the left of the cursor
1	space - . 1
2	A B C 2 à Á á â Ç
3	D E F 3 è È ê é
4	G H I 4 ì î í
5	J K L 5
6	M N O 6 ò ó ô õ Ñ
7	P Q R S 7 ß
8	T U V 8 ù ú û
9	W X Y Z 9
0	0

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

Is the information
inserted correct?

NO
>YES

$\uparrow\downarrow\Rightarrow$

- **No**, to return to the data entry screen.
- **Yes**, to store the data in the archive.

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:


```

- MEM.KEYS NUMBER -
If you don't have
PIN CODE you don't
codify any key

```

The **PIN CODE** is required to use this function.

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

The display will show:

```

- DATES INSERTION -
PIN CODE      : XXXX
PIN           : XXXX

```

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

The display will show:

```

CONNECTING ...

# # # # # # # # # #

```

At the end of the operation the display will show:

```

Keys number in
memory:

Y

Press any key...

```

- Press a key to quit.

NOTE: this function can be used to start the car with an **emergency start**. Enter the PIN CODE and read the number of keys, at the end of the operation the car can be started once, excluding the immobilizer function (using a key without transponder or with disabled transponder).

If a wrong PIN has been entered or there are errors during communication, the display will show: **error message No. 1** (see Operating Manual chap. 10 – WARNING/ERROR MESSAGES).

1.4 READING IMMO ID

This function is used to view the **immobilizer identification (ID IMMO)**, a code comprising 14 alphanumeric characters, essential for finding the **PIN CODE**; In such cases the **PIN CODE** is issued by the car manufacturer.

- Select and press ENTER, the display will show:

```
- IMMO ID READING -  
XXXXXXXXXX  
  
IMMO XXXXXXXX  
XXXXXXXX XX  
  
Press ESC to quit
```

Only the next 14 characters make up the word **IMMO** relating to immobilizer identification.

- 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/XX
Description
of the error
↑↓↔↵
```

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

1.6 ERASE ERRORS

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

```
- ERRORS RESET -
Erase
actual errors:
  >NO
  YES
↑↓↵↵
```

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

After a few seconds the display will show:

```
TERMINATED
ERASING
Press ESC to quit
```

- Press **ESC** to quit.



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