SBB

Operating manual

D432985XA
vers. 3.0
© 2006 SILCA S.p.A - Vittorio Veneto

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GENERAL

The device is designed to the principles of European CE Directives. The materials used in its manufacture are not dangerous and their use complies with directives. Its design features make the machine and all its components completely safe to use.

FURTHER RISKS
There are no further risks arising from the use of the machine.

PROTECTION AND SAFETY PRECAUTIONS FOR THE OPERATOR
The operations for which the machine has been designed are easily carried out at no risk to the operator.

SAFETY REGULATIONS
To operate under conditions of maximum safety do not use the device without reading and understanding clearly the contents of this operating manual.

• Check the electrical wiring periodically; if the wires are worn they should be repaired or replaced.
• Never work with wet, greasy or oily hands.
• Disconnect the device from the mains when it is not in use or in order to carry out maintenance work.
• Never tug at the power supply wire; make sure it does not come into contact with oil, sharp edges or heat.
• It is dangerous to use the device in areas at risk (damp or wet).
• Always work in a well lighted area.
• Keep the work area clean and remove all tools before turning on the machine.
• All visitors, children in particular, must keep at a safe distance and not touch the machine or electrical wiring.
• Do not use the device for purposes different from those described in the Operating Manual.

POWER SUPPLY
The machine is supplied with electricity at 12 Vdc provided by the vehicle battery, or as an alternative can be powered from a 15 Vdc universal feeder supplied with the machine.

TURNS ON
The machine turns on automatically when the connection (OBD II or Optional) is connected to the diagnostics socket or one of the feeder wires supplied with the machine.

IDENTIFICATION OF THE SBB DEVICE
The device has an identification plate showing its serial number (fig. 1).

Fig. 1

(*) see chap. 11 "WASTE DISPOSAL", page 34.
1 MACHINE DESCRIPTION

The machine is used to easily programme keys with transponders in the centralized immobilizer units of a number of car models. In particular, it can:
- memorize all the keys in the centralized immobilizer unit;
- erase keys already in the memory;
- read the immobilizer ID code – IMMO ID (if applicable);
- read the mechanical code for the key (if applicable);
- add one or more keys;
- read the number of keys in the memory (if applicable);
- read any errors/anomalies in the centralized immobilizer unit;
- erase/zero any errors found;
- provide help;
- Memorize the remote controls.

The machine is provided with a password to prevent unauthorized use. Users have at their disposal a functions menu to meet all possible requirements during operation.

NOTE: Once the machine is connected to the power mains it’s automatically switched on. To turn it off exit from function and unplug the machine from the mains.

1.1 MAIN CHARACTERISTICS

OPERATING METHODS
- Adds or deletes keys and remote controls from the immobilizer control unit by connecting SBB to the vehicle diagnostics input.

SPECIAL FUNCTIONS
- Storage in the User Data Archive of all operations carried out;
- Multi-language program;
- Machine test;
- Read the PIN CODE (where possible);
- Help (operational help for: type and position of connectors, procedures, keys, types of transponders, etc...).

PASSWORD
A principle password is needed to enable SBB (required every time the program is turned on), issued by the supplier/distributor by means of a special "USE AGREEMENT FORM".

SBB - FULL LOADED CONFIGURATION

BASIC SOFTWARE
ACURA®, ALFA ROMEO®, AUDI®, BUICK®, CADILLAC®, CHEVROLET®, CHRYSLER®, CHRYSLER® CAN, CITROËN®, DODGE®, DODGE® CAN, EAGLE®, FIAT®, FIAT®. PSA, FORD®, FORD® AUSTRALIA, FORD® USA, GENERAL MOTORS® BRAZIL, HOLDEN®, HONDA®, HONDA® USA, HYUNDAI®, JAGUAR®, JEEP®, JEEP® CAN, KIA®, LANCIA®, LAND ROVER®, LEXUS®, LINCOLN®, MAZDA®, MERCURY®, MITSUBISHI®, MITSUBISHI® AUSTRALIA, MITSUBISHI® GREEK, MITSUBISHI® USA, NISSAN®, NISSAN® JAPAN, NISSAN® TRUCKS, NISSAN® USA, OLDSMOBILE®, OPEL® CAN BUS, PEUGEOT®, PONTIAC®, RENAULT®, RENAULT® CAN BUS, ROVER®, SEAT®, SKODA®, SUBARU®, SUZUKI®, TOYOTA®, VOLKSWAGEN®, VOLKSWAGEN® BRAZIL, SPECIAL FUNCTION ZZ-FNT 01, SPECIAL FUNCTION ZZ-FNT 02, SPECIAL FUNCTION ZZ-FNT 03, SPECIAL FUNCTION ZZ-FNT 04.
- These makes are all enabled for use.

SOFTWARE UPDATE (NEW MAKES RELEASED)
- To use the new makes loaded with the SW update (after purchase) you may proceed in two different ways:

<table>
<thead>
<tr>
<th>ENABLING BY PASSWORD</th>
<th>ENABLING BY TOKEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter a different password specific to each new make released (see Ch. &quot;Enabling&quot;) then you can always use the device for that given make. Apply for the passwords on the special form &quot;USE AGREEMENT SHEET&quot; included in the software update kit.</td>
<td>Use a credit that is reduced every time key programming/deletion is carried out. Credits can be purchased and loaded onto SBB by means of a smart card (see chap. 6.6.1 &quot;ENABLING&quot;).</td>
</tr>
</tbody>
</table>
SBB - PAY PER USE CONFIGURATION

BASIC SOFTWARE
ACURA®, ALFA ROMEO®, AUDI®, BUICK®, CADILLAC®, CHEVROLET®, CHRYSLER®, CHRYSLER® CAN, CITROËN®, DODGE®, DODGE® CAN, EAGLE®, FIAT®, FIAT®-PSA, FORD®, FORD® AUSTRALIA, FORD® USA, GENERAL MOTORS® BRAZIL, HOLDEN®, HONDA®, HONDA® USA, HYUNDAI®, JAGUAR®, JEEP®, JEEP® CAN, KIA®, LANCIA®, LAND ROVER®, LEXUS®, LINCOLN®, MAZDA®, MERCURY®, MITSUBISHI®, MITSUBISHI® AUSTRALIA, MITSUBISHI® GREEK, MITSUBISHI® USA, NISSAN®, NISSAN®-PSA, NISSAN® JAPAN, NISSAN® TRUCKS, NISSAN® USA, OLDSMOBILE®, OPEL® CAN BUS, PEUGEOT®, PONTIAC®, RENAULT®, RENAULT® CAN BUS, ROVER®, SEAT®, SKODA®, SUBARU®, SUZUKI®, TOYOTA®, VOLKSWAGEN®, VOLKSWAGEN® BRAZIL, SPECIAL FUNCTION ZZ-FNT 01, SPECIAL FUNCTION ZZ-FNT 02, SPECIAL FUNCTION ZZ-FNT 03, SPECIAL FUNCTION ZZ-FNT 04.

- Two different methods are available for using the new makes:

<table>
<thead>
<tr>
<th>ENABLING BY MODEL CHANGE</th>
<th>ENABLING BY TOKEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>By using an optional SMART CARD &quot;MODEL CHANGE&quot; it is possible to enable all the makes to use the basic Software. The card must be purchased and the enablings have to be downloaded in SBB by means of a SMART CARD (see chap. 7 &quot;MODEL CHANGE.&quot;).</td>
<td>Use a credit that is reduced every time key programming/deletion is carried out. Credits can be purchased and loaded onto SBB by means of a SMART CARD (see chap. 6.6.1 &quot;ENABLING&quot;).</td>
</tr>
</tbody>
</table>

SOFTWARE UPDATE (NEW MAKES RELEASED)
To use the new makes downloaded with the SW update (after purchase) proceed only as follows:

<table>
<thead>
<tr>
<th>ENABLING BY TOKEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use a credit that is reduced every time key programming/deletion is carried out. Credits can be purchased and loaded onto SBB by means of a SMART CARD (see chapter &quot;Enabling&quot;).</td>
</tr>
</tbody>
</table>

SOFTWARE UPDATE
The machine can be updated through an RS232 serial line connection with a personal computer.

POWER SUPPLY
- From the car through an OBD II connector;
- From the car through the cigarette lighter plug;
- From the mains through a universal feeder and special cable.

1.2 TECHNICAL DATA

POWER SUPPLY
- 8-45 Volt (typically 12Volt from the vehicle diagnostic inlet or cigarette lighter plug).
- Universal feeder:

<table>
<thead>
<tr>
<th>INPUT</th>
<th>OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tension</td>
<td>90-264 Vac</td>
</tr>
<tr>
<td>Current</td>
<td>1.0Arms @ 90V</td>
</tr>
<tr>
<td>Frequency</td>
<td>47-63 Hz</td>
</tr>
<tr>
<td>Power</td>
<td></td>
</tr>
</tbody>
</table>

DIMENSIONS
Length: 220 mm
Width: 165 mm
Height: 50 mm
Weight: 300 g.
1.3 WORKING PARTS

Fig. 2

A - Retro illuminated LCD graphic display
B - 23-key keypad (numerical, functions, arrows, ESC, ENTER)
C - Parallel Port (25 Poles) to communicate with the vehicle
D - Serial Port RS232 (9 Poles) use only for Serial cable
E - Socket for cigarette lighter power cable or feeder

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>F - Standard OBD II cable</td>
</tr>
<tr>
<td>G</td>
<td>G - Cigarette lighter power cable</td>
</tr>
<tr>
<td>H</td>
<td>H - Feeder</td>
</tr>
<tr>
<td>J</td>
<td>J - Serial cable</td>
</tr>
</tbody>
</table>
MAIN FEATURES

KEYPAD
The machine keypad allows the user to interact with it rapidly and easily. At any given time only the keys involved in the cycle in progress are enabled.

<table>
<thead>
<tr>
<th>F1</th>
<th>F2</th>
<th>F3</th>
<th>F4</th>
<th>F5</th>
<th>HELP function keys</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Left-Right arrow keys, move the cursor to the left or to the right</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Up-Down arrow keys, move the cursor up or down</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(ENTER) key confirms data entered or selection made</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(ESC) key quits or returns to the previous screen/status</td>
</tr>
</tbody>
</table>

Fig. 3

LIQUID CRYSTAL DISPLAY
Retro illuminated LCD graphic display (128x64 pixel or 21x8 characters).

1.4 SYMBOLS
The box shows the machine screen and relative displays, as shown below:

```
- MAIN MENU -
  1 - IMMOBILIZER
  2 - REMOTE CONTROLS
  > 3 - PIN CODE SERVICE
  4 - SET UP
  5 - DATA BASE
  6 - TEST
```

Methods for selecting a specific function:
- Use the arrow Left/Right keys, the point where the cursor "->" shows the item required, then press ENTER;
- Digit a number (xx) from the keypad to access the item required directly from the menu.

```
- TEST -
  1 - KEYBOARD
  2 - TEXT
  > 3 - GRAPHICAL
  4 - UPDATE SWICH CAN
```

Example:
to access the GRAPHICS TEST menu (73) either use the arrows to select first the TEST menu (7), press ENTER, then the GRAPHICS menu (3) and press ENTER, or digit (73) which corresponds to the GRAPHICS TEST (73).
2 TRANSPORT

The machine and its components are easily transported by one person and its handling does not incur any hazards.

2.1 PACKING

The packing ensures safe transport for the machine and protects all its parts. To avoid knocks damaging the machine, we recommend using the original carrying case and packing every time it is transported.

2.2 UNPACKING

To remove the machine from its packing:

1) take care not to damage the box when opening as it can be used again (transfers, dispatch to the manufacturer for repairs or maintenance).

2) check the contents of the packing case, which comprise:
- 1 carrying case;
- 1 machine;
- 1 universal feeder;
- 1 centralized unit connecting cable (universal), OBDII – 00 connector;
- 1 serial cable;
- 1 power supply cable with cigarette lighter plug;
- 1 set of documents: user’s manual, guarantee form and user’s agreement;
- 1 CD program

2.3 HANDLING

Always replace the machine in its carrying case after use.
3 ACCESSORIES PROVIDED

The device comes complete with:
- universal feeder;
- centralized unit connection cable (OBD II-00 connector);
- serial cable;
- power supply cable with cigarette lighter plug;
- CD program (to be used in the event of loss of the program on the machine).

4 INSTALLATION AND PREPARATION

Installation can be carried out by the purchaser and does not require special skills. The machine is supplied ready for use – however, some checks and preparation are necessary before use.

4.1 PREPARATION FOR USE - INITIAL OPERATIONS
- power the machine by means of the supply socket (E);
- check that the serial number stamped on the device is the same as the one shown on the display; enter the password (to enable use) (see chap. 6.2 *PASSWORD*, page 8);
- select the language;

4.2 CHECKING FOR DAMAGE

The device will not normally damage if transport, unpacking and installation have all been carried out according to the instructions in this manual; however it is always advisable to check that the machine has not suffered any damage.

Should faulty operation arise that is not connected with the above-mentioned conditions, please contact After-Sales Service.

4.3 ENVIRONMENTAL CONDITIONS

To ensure that the best use is made of the machine and that the keys with transponders produced work properly, it is important to bear in mind operating conditions and temperature.

*Given the characteristics of the transponders on the keys, in order to memorize them, THE TEMPERATURE MUST BE ABOVE 5° C.*

Ideal working conditions for the machine are therefore:
- temperature: from 5° to 40° C.

4.4 SOFTWARE UPDATING

The machine software can be updated by connection to a personal computer.

**ATTENTION:** the RS232 socket for connection to the PC is located on the front, near the display.

Use the RS232 serial cable provided and follow the instructions for updating.

5 REGULATION AND GAUGING

The machine is designed not to require any gauging or regulation.
6 USING THE MACHINE

This chapter describes all the operations required to memorize, erase, or add keys to the centralized immobilizer unit by connecting SBB to the vehicle diagnostics input.

6.1 START-UP

When the machine is turned on the display shows the logo:

After a few seconds the following message appears:

```
S.N. : XXXXXXXXXXXXXX
Ver. (SW): XXX.XX.XXX
Ver. (DB): XX.XX
Update : XXXXXXX
(F1) to continue
```

The wording “Update: XXXXXXX” give the level of updating for the program and database.
The wording “Ver (SW) XX.XX.XX” indicates the software version.
The wording “Ver (DB) XX.XX.XX” indicates the make and model Database version on the machine.
The wording “S.N.: XXXXXXXXXXXXX” give the machine serial number.
Check that the serial number shown on the display is the same as that on the document "USER’S AGREEMENT" and on the label attached to the back of the machine.
Press F1 to continue.

6.2 PASSWORD

When selection has been made, the following message appears:

```
INSERT PASSWORD:
XXXXXXXX
```

To use the machine enter the password issued by the supplier/dealer, comprising 8 numerical characters.
- enter the password and press ENTER.

CORRECT PASSWORD

If the password is correct, the message below appears:

```
RIGHT PASSWORD
```

After a few seconds the program enters the main menu.
WRONG PASSWORD
If a wrong password has been entered, a beep advises the user and the display shows:

```
WRONG PASSWORD
INSERT PASSWORD:
XXXXXXXX
```

- Repeat the operation and press ENTER.

6.2.1 PASSWORD (MEMORIZED)
If the password has already been memorized on the machine (chap. 6.6.6 "MEMORIZE PASSWORD", page 19), when F1 is selected the following message appears:

```
PASSWORD SAVED
```

Wait a few seconds for the display to show the main menu.

6.3 MAIN MENU
There are two ways to choose the menu:

```
- MAIN MENU -
1 - IMMOBILIZER
2 - REMOTE CONTROLS
> 3 - PIN CODE SERVICE
4 - SET UP
5 - DATA BASE
6 - TEST
```

- Use the , arrow keys for selection then press ENTER, or digit the number corresponding to the function.

6.4 IMMOBILIZER MENU / REMOTE CONTROLS
This function contains the database of vehicle makes / models / years for which the device is enabled and can carry out the specific functions involved.
- Select “IMMOBILIZER/REMOTE CONTROLS”, from the MAIN MENU to view a list of car makes on the display.

```
- MENU IMMOBILIZER -
AUDI
SEAT
SKODA
> VOLKSWAGEN
OPEL
FORD
```
SELECTING THE CAR MAKE
- Use the → arrow keys to select the make, then press ENTER.
- Press ESC to quit.
After selecting the make the display will show the list of car models.

FUNCTION F1
Press the “F1” key to show information relating to the make/model selected (type and position of connectors, procedures, keys, types of transponder, etc.) (see chap. 3 “HELP MENU”, page 31).

6.4.1 SELECTING THE CAR MAKE
SBB is not always able to automatically recognize all the immobilizer central units and is therefore unable to automatically choose the communication procedure to launch. It is therefore NECESSARY to select the right MAKE  MODEL  ANY OTHER CHARACTERISTICS (Petrol, Diesel, red key system, etc.) to which the specific communication procedure is associated.
For more information about the car model see the Functions Menu of the specific make.

6.4.2 CAR MODEL NOT ENABLE
If a car model that is not enabled is selected, a beep is heard and the display shows:

- VOLKSWAGEN -
  Device not enabled for this model.
  Insert password from menu ENABLE FLAGS (41)

6.4.3 CAR MODEL ENABLED
If a car model that is enabled has been selected, the display shows:

Insert the key and turn on the console

- Press ESC to quit.
- Press ENTER to continue.
6.4.4 COMMUNICATION PROCEDURE WITH THE IMMOBILIZER

The following message appears:

Please wait
connecting...

The communication procedure with the immobilizer starts; if the car model selected is correct and the immobilizer is detected, the Functions menu by make appears, otherwise an error message is shown (see chap. 8 "WARNING/ERROR MESSAGES", page 24).

6.5 PIN CODE SERVICE

This menu describes some of the functions required to obtain a PIN CODE (for certain vehicle models only) without going to the dealer.
Select the item “PIN CODE SERVICE” and press ENTER. The display will show:

6.5.1 VAG PIN CODE

This function can read the vehicle PIN CODE directly from the OBD-II socket (only for certain VAG models). Select “PIN CODE SERVICE” from the main menu, then “VAG PIN CODE”. The display will show:

- Use the Down/Up arrow keys to select the specific model, then press ENTER. Press ESC to quit.

6.5.1.1 DISABLED VEHICLE MODEL

If the function is not enabled a beep is heard and a message appears:

- VAG PIN CODE -
Device not enabled for this model. Insert password from menu ENABLE FLAGS (41)

6.5.1.2 ENABLED VEHICLE MODEL

If the function is enabled the following message appears:

Turn the ignition on!

- Turn the key to the ON position.
Press any key.
6.5.1.3 COMMUNICATION PROCEDURE FOR PIN CODE READING

The display shows:

Please wait
connecting...

The communication procedure starts with the vehicle control panel memory. Different screens may appear, according to the type of control panel on the vehicle.

6.5.2 VAG - 7-4 PIN CONV.

This function is used to convert a 7-digit pin code (issued by the dealer) to a 4-digit pin code for use on VOLKSWAGEN®, AUDI®, SEAT® and SKODA® vehicles.

- To activate the function select “PIN CODE SERVICE”, then “VAG PIN CODE”. Press ENTER.

- To activate the function, select ENTER.
- Press ESC to exit.

6.5.2.1 PIN 7

This is a 7-digit code issued by the dealer.

How to apply for the code:
- Use the function “READ IMMO ID” in SBB to read the series number of the central unit.
- Provide the authorized dealer with the following data:
  • Central unit series number
  • Chassis number
  • Copy of log book
  • ID document for applicant

6.5.2.2 DEALER

This is the ID code for the authorized dealer (different from dealer to dealer) who issues the 7-digit code. The code is included in the rubber stamp used by the dealer to validate work on the vehicle.

- To activate the function, select “DEALER” and press ENTER.
6.5.2.3 **IMPORTER**

This is the ID code for the country in which the 7-digit code is applied for (different from country to country). The code is included in the rubber stamp used by the dealer to validate work on the vehicle.

![Import Code Image]

Table of currently known Importer Codes.

<table>
<thead>
<tr>
<th>COUNTRY</th>
<th>IMPORTER CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITALIA</td>
<td>264</td>
</tr>
<tr>
<td>ENGLAND</td>
<td>210</td>
</tr>
<tr>
<td>ISRAEL</td>
<td>730</td>
</tr>
<tr>
<td>USA</td>
<td>444</td>
</tr>
<tr>
<td>CANADA</td>
<td>999</td>
</tr>
<tr>
<td>SPAIN</td>
<td>572</td>
</tr>
<tr>
<td>PORTUGAL</td>
<td>261</td>
</tr>
<tr>
<td>RIUNION ISLAND</td>
<td>387</td>
</tr>
</tbody>
</table>

- To activate the function, select “IMPORTER” and press ENTER.

6.5.2.4 **PIN 4**

This is the 4-digit code to enter as PIN CODE on the SBB during the “PROG.NEW KEYS” or “No. KEYS MEM.” stages.

It is calculated by the device when the other codes are known: Code7, Dealer Code, Importer Code and date of issue.

**CALCULATION OF PIN 4**

Calculate the PIN 4 proceed as follows:
- Insert the day, month and year of issue of CODE 7
- To activate the function, select “DATE” and press ENTER.
- Insert the PIN 7, DEALER and importer CODE.
- To activate the function, select the figure to insert and press ENTER.

An asterisk will confirm that the figure has been entered.

```
> VAG CONVERTER
PIN 7 *
DEALER
IMPORTER
> PIN 4
DATE (XX/XX/XXXX)
EXIT
```

- The PIN 4 will appear automatically once all the data have been entered (DATA, PIN 7, DEALER, IMPORTER).

**ADVANCED OPTIONS**

The function can also be used for inverse calculation.

Example:

If you have the **correct data** for:
- The date of issued of CODE;
- 3 of the 4 codes required;

The missing CODE can be found. Just insert the 3 items of known data and the missing figure will appear automatically.
6.5.3 HYUNDAI®/KIA® PIN CODE

This function is used to calculate the 6-digit PIN CODE by means of the vehicle’s VIN number; in this way it is not necessary to ask the dealer for this security code, which is essential for programming new keys.

NOTE: this function can only be used to obtain the PIN CODE for HYUNDAI® and KIA® relating to SYSTEM 2 immobilizers.
For further information about Immobilizer systems and HYUNDAI® and KIA® PIN CODES, consult the Operating manual for the specific make.

- To activate the function select “PIN CODE SERVICE” then “HYUNDAI® PIN CODE” or “KIA® PIN CODE”.
- Press ENTER.
- The display will show:

```
- HYUNDAI/KIA PIN CODE -

Insert the last 6 digit of VIN:
123456
```

- Insert the last 6 digits of the VIN and press ENTER.

LEGEND: V.I.N. (Vehicle Identification Number) is the vehicle frame number.
This is usually found in the vehicle logbook or stamped on a metal plate located inside the bonnet.

- Insert the PIN CODE.
- The display will show:

```
- HYUNDAI/KIA PIN CODE -

PIN CODE: XXXXXX
```

- Press any key...

- Press any key to return to the “PIN CODE SERVICE” menu.
6.6 SETUP

This section contains the various setting menus for the machine. Select "SETUP" from the main menu and press ENTER.

- SETUP -
  > 1 - ENABLE FLAGS
  2 - LANGUAGE
  3 - SERIAL NUMBER
  4 - CALENDAR/CLOCK
  5 - RELEASE
  6 - STORE PASSWORD
  7 - KEYS REFERENCES
- Select and press ENTER.

6.6.1 ENABLING

After selection the display will show:

- ENABLING -
  > 1 - IMMOBILIZER
  2 - REMOTE CONTROLS
  3 - TOKEN (X)

- Select IMMOBILIZER to view the vehicle makes available for entering enabling in the "Immobilizer" function;
- Select REMOTE CONTROLS to view the vehicle makes available for entering enabling in the "Remote Controls" function;
- Select TOKEN to view the tokens available; further tokens can be loaded.
- Select and press ENTER.

ENABLING MAKES (FUNCTION AVAILABLE ONLY FOR SBB FULL LOAD DEVICES)

After selecting the menu "IMMOBILIZER or REMOTE CONTROLS" the display will show:

- ENABLING -
  > AUDI
  FORD
  NISSAN
  OPEL
  SEAT

Select the required make to view the enabling levels available and those already enabled.

- ENABLING MAKE -
  LEVEL1 (*)
  LEVEL2 (*)
  > LEVEL3 (*)

To enter the enabling password applied for with the document provided with the software update disk (software application FORM).
- Select the level of enabling and press ENTER.
- Select ESC to quit.

NOTE: the levels marked (*) are already enabled for operation.
PASSWORD ENTRY
After selecting the enabling level the display will show:

- Enter the password comprising 6 numerical characters.
- Press ENTER to continue, ESC to quit.

WRONG PASSWORD
If the Password entered is wrong the user is warned by a beep and the display will show:

- Repeat the operation.

ATTENTION: only 3 attempts are allowed, after which the device is blocked. To release disconnect the device from the power supply, then re-connect.

RIGHT PASSWORD
If the Password entered is right, the display will show:

From this moment the device is enabled to operate at the enabling level selected.

ENABLING TOKEN
After selecting the "TOKEN" menu the display will show:

XX = Tokens still available
YY/YY/YYYY = Date of last loading of tokens
F5 = Function key for unloading tokens from the smart card
LOADING TOKENS
To load new TOKENS onto the machine you must buy a Smart Card containing the credits. Insert the Smart Card into the SBB before turning on the device (see fig. 5).

Press the F5 function key
If credits have been transferred from the smart card to SBB successfully, the display will show:

- TOKEN FROM SMARTCARD -

OPERATION SUCCESSFULLY COMPLETED!

Press any key...

Press any key to return to the previous menu.
If the credits have not been successfully transferred from the SMART CARD to SBB, the display will show one of the following errors:

<table>
<thead>
<tr>
<th>ERROR NUMBER</th>
<th>ERROR MESSAGE ON DISPLAY</th>
<th>CAUSE/SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SMART CARD. COMMUNICATION ERROR. CHECK INSERTION POSTION</td>
<td>The card has not been inserted properly, or is damaged</td>
</tr>
<tr>
<td>2</td>
<td>SMART CARD. TYPE MISMATCH</td>
<td>Try updating the device with the latest version available and if this does not work, return the card to Silca as it may be damaged</td>
</tr>
<tr>
<td>3</td>
<td>SMART CARD. ALREADY USED</td>
<td>The card has already been used and cannot be re-used</td>
</tr>
<tr>
<td>4</td>
<td>SMART CARD. VERSION MISMATCH. FIRMWARE UPDATE REQUIRED.</td>
<td>Try updating the device with the latest version available and if this does not work, return the card to Silca as it may be damaged</td>
</tr>
<tr>
<td>8</td>
<td>SMART CARD. WRONG TOKEN NUMBER</td>
<td>The card is damaged, return to Silca</td>
</tr>
</tbody>
</table>

- Press any key to return to the previous menu.
- Check that the smart card has been inserted properly and repeat the procedure.
6.6.2 LANGUAGE
This function is used to select the language for the device.
- Select the item "LANGUAGE" from the “Setup” menu, the display will show:

<table>
<thead>
<tr>
<th>LANGUAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 1 - ITALIANO</td>
</tr>
<tr>
<td>2 - DEUTSCH</td>
</tr>
<tr>
<td>3 - FRANCAIS</td>
</tr>
<tr>
<td>4 - ENGLISH</td>
</tr>
<tr>
<td>5 - ESPANOL</td>
</tr>
<tr>
<td>6 - GREEK</td>
</tr>
<tr>
<td>7 - PORTUGUES</td>
</tr>
</tbody>
</table>

- Select the language and press ENTER

6.6.3 SERIAL NUMBER
This function is used to view the serial number of the machine.
- Select the item “SERIAL NUMBER” from the “Setup” menu; the display will show:

SBB
SERIAL NUMBER
XXXXXXXXXXXXXXX

6.6.4 CLOCK
This function is used to read the machine’s internal clock.
- Select the item “CLOCK” the “Setup” menu; the display will show:

- CALENDAR/CLOCK -

TIME:
XX:XX:XX
DATE:
XX/XX/XXXX

- Press ESC to quit.
- Select ENTER to continue.
- Follow the instructions given by the device.
- The user is not enabled to the TIME/DATE changing functions of the clock.

6.6.5 VERSION
This function is used to view the FIRMWARE / SW / DATABASE version on the device.
- Select the item “VERSION” from the “Setup” menu:

- SBB -

Ver. (SW): XXX.XX.XXX
Ver. (DB): XX.XX
Release : XXXXXXXX
- Ver. (SW): version of the internal program
- Ver. (DB): version of the car makes-models database
- Update: database update level given by the manufacturer’s code.

6.6.6 MEMORIZE PASSWORD
This option can be used to bypass the password, which is required every time the machine is turned on.
- Select the item “MEMORIZE PASSWORD” from the “Setup” menu, the display will show:

```
MEMORIZE PASSWORD

>YES
NO
```
- Select and press ENTER.
- Select ESC to quit.

6.6.7 KEYS REFERENCES
This option can be used to view the Silca or Ilco keys references on HELP F1 menu.
- Select the item “KEYS REFERENCES” from the “Setup” menu; the display will show:

```
KEYS REFERENCES

Select the reference to display
>SILCA
ILCO
```
- Select and press ENTER.
- Select ESC to quit.

6.7 ARCHIVE
This section contains all the controls for searching, printing, or deleting user data stored in the device memory.
Select “ARCHIVE” from the MAIN MENU and press ENTER; the display will show:

```
DATA BASE
1 - SEARCH
2 - PRINT DATA
3 - ARCHIVE RESET
```

6.7.1 SEARCH
This control is used to make a search for:
- POS.: Position in which the operation carried out was saved
- DATE: date on which the operation was memorized
- MAKE: car make
- MODEL: car model
- SURNAME: customer’s surname
- NUMBER PLATE: car number plate
Select “SEARCH” from the “ARCHIVE”; menu; the display will show:

```
- SEARCH -
POS.: XX
DATE: XXXXXXXX
> BRAND: XXXXXXXXX
MODEL: XXXXXXXXX
SURNAME: XXXXXXXXX
REG.NO.: XXXXXXXXX
```

- Use the , , arrow keys to place the cursor in the required field and press .
- Enter the characters to be searched for.
- Press ENTER to proceed the search.

**SEARCH METHOD**

**(POS.) (DATE)**
- Digit a number or the date and press ENTER: the display will show the corresponding record.
- Use the key to view the previous record, the key to view the next record.

**(MAKE) (MODEL) (SURNAME) (NUMBER PLATE)**
- Digit the initial or part of the text to be searched for and press ENTER: the display will show the first record available in order of position (POS.)
- Use the key to view the previous record, the key to view the next record.

If none of the search criteria are met or there are no data in the archive, the display will show:

```
NO INFORMATION
RECOVERED
```

- Press any key and repeat the search.

**USER DATA**

User data that meet the criteria are shown as follows:

```
USER DATA (D)
DATE: 20/03/2001
BRAND: AUDI
MODEL: A4
YEAR: (95-98)
SURNAME: ROSSI
NAME: MARIO
REG.NO.: TV9988776
KEYS: 3
PIN: 4567
IMMO ID: (F1)
```

Use the keys to view the user data in sequence (depending on the search selected).
- Press key F1 to view the IMMO ID.

**6.7.2 PRINTOUT**

At present this function is not active.
6.7.3 ARCHIVE ERASE
This function is used to erase all user data in the archive.
- Select "ERASE ARCHIVE" from the "ARCHIVE" menu; the display will show:

```
- ARCHIVE ERASE -

> NO
  YES
```
- Select and press ENTER.
- Select ESC to quit.

6.8 TEST
This section contains all the controls with which to carry out a rapid operational test on the machine. Select "TEST" from the main menu. The display will show:

```
- TEST -
  1 - KEYBOARD
  > 2 - TEXT
     3 - GRAPHICAL
     4 - UDPAD SWITC CAN
```

6.8.1 KEYBOARD
This function is used to test the operation of all the keys on the device keypad.
- Select "KEYPAD" from the "TEST" menu.
- To carry out the test press all the keys on the device, one after the other; to quit press any key three times.

**TEST RESULT:**
- TEST PASSED (all the keys are working properly)
- TEST FAILED (not all the keys has been pressed) possible causes:
  - One or more keys not working properly
  - The same key has been pressed for three times in a row.

6.8.2 TEXT
This function is used to test the operation of the display in the Text mode.
- Select "TEXT" from the "TEST" menu.

```
0123456789abcdefghijk
0123456789abcdefghijk
0123456789abcdefghijk
0123456789abcdefghijk
```

- Check that the characters on the display correspond.
- Press a key to quit.

6.8.3 GRAPHICS
This function is used to test operation of the display in the GRAPHICS mode.
- Select "GRAPHICS" from the "TEST" menu and check that all the pixel on the display are illuminated.
- Press a key to quit.
6.8.4 UPDATE SWITCH CAN
This function is used for manual updating of the internal software for the CAN BUS SWITCH.
- Select "UPDATE CAN BUS SWITCH" from the "TEST" menu.
- The display will show:

```
OPTIMIZATION IN PROGRESS
```

Updating of the SWITCH CAN BUS start now.
When updating is complete the SBB re-starts automatically.
7  MODE CHANGE

Use the SMART CARD “MODEL CHANGE” (optional) to enable the software for a given machine. To do so, insert the SMART CARD “MODEL CHANGE” into the SBB device before turning it on (see fig. 6).

- Turn on the machine.

ENABLING COMPLETE

If enabling has been carried out successfully the machine starts normally and keys and remote controls can be programmed for the enabled makes without using TOKENS.

ENABLING NOT COMPLETE

If errors have occurred during enabling the display will show one of the following errors:

<table>
<thead>
<tr>
<th>ERROR NUMBER</th>
<th>ERROR MESSAGE ON DISPLAY</th>
<th>CAUSE/SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>SMART CARD. TYPE MISMATCH</td>
<td>Try updating the device with the latest version available and if this does not work, return the card to Silca as it may be damaged.</td>
</tr>
<tr>
<td>3</td>
<td>SMART CARD. ALREADY USED</td>
<td>The card has already been used and cannot be re-used</td>
</tr>
<tr>
<td>4</td>
<td>SMART CARD. VERSION MISMATCH, FIRMWARE UPDATE REQUIRED.</td>
<td>Try updating the device with the latest version available and if this does not work, return the card to Silca as it may be damaged.</td>
</tr>
<tr>
<td>5</td>
<td>SMART CARD. DEVICE MISMATCH, FIRMWARE UPDATE REQUIRED.</td>
<td>Try updating the device with the latest version available and if this does not work, return the card to Silca as it may be damaged.</td>
</tr>
<tr>
<td>6</td>
<td>SMART CARD. SERIAL NUMBER MISMATCH</td>
<td>Check that the device serial number corresponds to that printed on the face of the card. If there is an error, return the card to Silca.</td>
</tr>
<tr>
<td>7</td>
<td>SMART CARD. WRONG FLAGS VECTOR</td>
<td>The card is damaged, return it to Silca.</td>
</tr>
</tbody>
</table>

- Press any key to return to the previous menu.
- Check that the SMART CARD has been inserted properly and repeat the procedure.
8 WARNING/ERROR MESSAGES

ERROR MESSAGE 1

- COMMUNICATION ERROR -

ECU disconnected

Press ESC to quit

ERROR MESSAGE N° 2

Communication error

Press any key...

- These error messages may appear during communication with the immobilizer if the connection is cut off, or in the case of physical disconnection between the device and immobilizer: disconnect the device from the socket and repeat the operation.

ERROR MESSAGE 3

Not recognized protocol

Press any key...

- This message appears when a car model is selected but none of the queries from the different protocols used receive a coherent reply from the immobilizer. Check that you have selected the right makemodel.

ERROR MESSAGE 4

NOT VALID PIN

- This message appears when the PIN CODE entered is not properly composed or is not recognized by the immobilizer.
ERROR MESSAGE 5

Key not programmed
Repeat procedure

Press any key...

This message appears when key programming is not successful. Repeat the procedure.

ERROR MESSAGE 6

REMOTE CONTROL
not programmed
Repeat procedure

Press any key...

This message appears when remote control programming is not successful. Repeat the procedure.

ERROR MESSAGE 7

- The key to be programmed is faulty, replace with a new key and repeat programming.
- Press any key to continue.

- All the keys memorized before programming started are still enabled for operation.
- Press any key to continue.
ERROR MESSAGE 8

- The key to be programmed is a wrong key, replace with the right key and repeat programming.
- Press any key to continue.

```
- PROG. NEW KEYS -

KEY i
Acquisition failed
Key faulty
Repeat procedure

Press any key...
```

- All the keys memorized before programming started are still enabled for operation.
- Press any key to continue.

ERROR MESSAGE 9

- The key to be programmed has been erased and cannot be re-programmed. Replace with a new key and repeat programming.
- Press any key to continue

```
- PROG. NEW KEYS -

Procedure interrupted
Keys memorized before procedure started are enabled.

Press any key...
```

- All keys memorized before programming started are still enabled for operation.
- Press any key to continue.
ERROR MESSAGE 10

- The key to be programmed has already been programmed; repeat programming.
- Press any key to continue.

- All keys memorized before programming started are still enabled for operation.
- Press any key to continue.

ERROR MESSAGE 11

- The key to be programmed is without a transponder. Replace with a new key with transponder and repeat programming.
- Press any key to continue.

- All keys memorized before programming started are still enabled for operation.
- Press any key to continue.
ERROR MESSAGE 12

- PROG. NEW KEYS -

Key memorization failed
EEPROM memory error

Press any key...

- There is an internal anomaly in the immobilizer.
- Press any key to continue.

ERROR MESSAGE 13

- PROG. NEW KEYS -

Body Computer
not properly
programmed

Press any key...

- There is an internal anomaly in the body computer.
- Press any key to continue

ERROR MESSAGE 14

- RKE PROGRAM -

Procedure failed

Press any key...

- The remote control to be programmed is not the right one, or is broken, or errors have occurred during programming. Make sure the remote control is the right one and efficient, then repeat programming.
- Press any key to continue

ERROR MESSAGE 15

- PROG. NEW KEYS -

Error found:
XXXX
Eliminate the error
before programming keys
and/or remote controls

Press any key...

- If errors are found in the immobilizer, programming cannot take place.
- Delete the errors using the “DELETE ERRORS” function, then repeat programming.
- Press any key to continue
ERROR MESSAGE 16

- The Body computer (main control unit) is not properly programmed; programming operations cannot be carried out.
- Have the body computer properly programmed by an authorized dealer, then proceed with programming.
- Press any key to continue.

ERROR MESSAGE 17

The remote control to be programmed is not the right one or is faulty.
- Repeat programming, making sure that the remote control is the right one and operational.
- Press any key to continue.

ERROR MESSAGE 18

The battery in the remote control to be programmed is flat.
- Replace the remote control battery with a new one and repeat programming.
- Press any key to continue.

ERROR MESSAGE 19

The remote control to be programmed is already in the memory and operational.
- Use a remote control not yet programmed and repeat programming.
- Press any key to continue.
ERROR MESSAGE 20

- RKE PROGRAM -

REMOTE CONTROL N° XX
Learning failed
Repeat the procedure
Press any key...

Some errors have occurred during programming.
Repeat programming, making sure that the remote control to be programmed is the right one and operational,
and that the immobilizer system has no operational anomalies (use the reading errors function).
Press any key to continue.
9 HELP MENU

This function is enabled after the selection of car make and model.
The following help functions are available:

F1
Press the function key “F1” to read information relating to the MAKE/MODEL selected:
- MAKE
- MODEL
- YEAR
- REFERENCE (SILCA)
- ORIGINAL TRANSPONDER
- MEMORIZATION PROCEDURE
- MAX. NUMBER OF KEYS THAT CAN BE MEMORIZED
- CONNECTOR TO USE
- ADAPTER TO USE
- CONNECTOR POSITION

Example:

<table>
<thead>
<tr>
<th>CAR MAKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2: (95-96)</td>
</tr>
<tr>
<td>CONNECT: 00</td>
</tr>
<tr>
<td>Pos.Con.: (F3-F4)</td>
</tr>
<tr>
<td>KEY REF: HU66AT6</td>
</tr>
<tr>
<td>Orig.Tr: MEG/CR</td>
</tr>
<tr>
<td>RW2/RW3 ID: 48</td>
</tr>
<tr>
<td>F2-F3-F4</td>
</tr>
<tr>
<td>N.KEY: 8</td>
</tr>
<tr>
<td>Self P.: (F2)</td>
</tr>
</tbody>
</table>

- Connect: type of cable to use to connect with the immobilizer (see ID label on the cable);
- Pos.Con: position on the vehicle of the diagnostics socket to which the device can be connected; press F3 – F4 to access the information.
- Key Ref.: Silca key to use for the car model selected
- Orig.Tr: type of transponder used on the original key
- RW2/RW3 ID: ID code for transponder used by RW2/RW3.
- No. Key: max. number of keys that can be memorized on the vehicle (when the maximum number of keys is reached, a key must be erased from the memory in order to memorize a new one).
- Self P: description of the direct programming procedure.

NOTE: correspondence of the original transponder to the Silca key to be used should be checked with the RW2/RW3 for the type of transponder.
The F2-F3-F4 help menus are now available (see last bottom line).

F2 Direct programming is a memorization/deletion method for new keys on the vehicle which does not require diagnostics. The procedure is active on certain models only, as its use depends on the policy of the car manufacturer.

Press the “F2” function key; the display will show the direct programming procedure:

<table>
<thead>
<tr>
<th>CAR MAKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON BOARD PROGRAM A</td>
</tr>
<tr>
<td>1 - Programming new keys without use of programmed keys</td>
</tr>
</tbody>
</table>
**F3-F4**
Press the “F3” function key, the display will show the position of the connector (Graphic Image)

![Graphic Image]

*Fig. 7*

- Select **ESC** to quit.

Press the “F4” function key, the display will show a description of the position of the connector:

```
POSITION
Remove the cover situated at the side of the hand brake
```

- Select **ESC** to quit.
10 MAINTENANCE

ATTENTION: for repairs or replacement of parts for maintenance, the ‘CE’ mark is guaranteed only if original spare parts provided by the manufacturer are used.

The machine does not require special maintenance.

ATTENTION: do not open the machine for any reason whatsoever

Before starting any type of maintenance (checks or replacement of parts) read the following instructions:
- Do not carry out any maintenance operations with the machine turned on;
- Always disconnect from the mains;
- Follow the instructions in the manual;
- Use original spare parts.

<table>
<thead>
<tr>
<th>FAULT</th>
<th>PROBABLE CAUSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISPLAY:</td>
<td>A) CHECK POWER SUPPLY CONFIGURATION</td>
</tr>
<tr>
<td>- DISPLAY IS BLANK WITH MACHINE ON</td>
<td>B) CHECK CONNECTION WIRING</td>
</tr>
<tr>
<td></td>
<td>- REPLACE DISPLAY (AFTER-SALES SERVICE)</td>
</tr>
<tr>
<td></td>
<td>- REPLACE ELECTRONIC CONTROL BOARD (AFTER-SALES SERVICE)</td>
</tr>
<tr>
<td>KEYPAD:</td>
<td>A) CHECK CONNECTION WIRING</td>
</tr>
<tr>
<td>- NOT RESPONDING TO CONTROLS</td>
<td>- REPLACE KEYPAD (AFTER-SALES SERVICE)</td>
</tr>
<tr>
<td>NO COMMUNICATION WITH THE CENTRALIZED UNIT</td>
<td>A) CHECK THAT THE RIGHT CAR MODEL HAS BEEN SELECTED</td>
</tr>
<tr>
<td></td>
<td>B) CHECK THE WIRING</td>
</tr>
</tbody>
</table>

The instructions above relating to the probable causes of the faults described should be considered indicative and not a complete list of the possible causes of malfunctions. Contact the After-Sales Service in the event of any other problems arising.

10.1 CHECKING WIRING

If it is necessary to check the machine’s internal wiring, proceed as follows:
- Disconnect the supply wire;
- Detach any other wires connected to the machine;
- Remove the 4 screws located on the back of the machine;
- Remove the cover carefully, paying attention to the wiring;
- Check that all the connectors are properly in place.
11 WASTE DISPOSAL

EU regulations establish special arrangements for the disposal of waste (*).

WASTE DERIVING FROM THE MACHINE
The machine produces no waste during its use.

MACHINE
The machine is made of re-usable materials. Re-cycling is recommended ecological practice.

PACKING
The machine is consigned in a cardboard packing box which can be re-used if undamaged. When it is to be thrown away it is classified as solid urban waste and it should be placed in the special paper collecting bins.

(*) Waste is any substance or object deriving from human activity or natural cycles, thrown away or to be thrown away.

DISPOSING OF THE BATTERY
The battery (fig. 8) must be disposed of according to current regulations.

Fig. 8

INFORMATION FOR USERS

as per art. 10 of Directive 2002/96/CE of 27/01/2003 REGARDING WASTE FROM ELECTRIC AND ELECTRONIC APPLIANCES (RAEE),

- The symbol illustrated above, also found on the machine, indicates that it has been placed on the market and must be included in separate rubbish collection when the user wishes to dispose of it (including all components, sub-assemblies and consumables that are integrated in the product).
- For information about the collection system for such appliances please contact SILCA S.p.A. or another subject registered in the various National Rolls for other countries in the European Union. Household waste (or of similar origin) can be included in the separate collection system for urban waste.
- On purchasing a new appliance of equivalent type, the old one can be consigned to the dealer. The dealer will then contact whoever is responsible for collecting the appliance.
- Suitable separate collection of the unused appliance and its dispatch for treatment, recovery and environmentally compatible disposal, makes it possible to avoid potential negative effects on the environment and human health, and aids recycling and the recovery of the materials used.
- Unauthorised disposal of the product by users involves the application of the sanctions provided for in received Directives 91/156/CE and 91/689/CE.
12 ASSISTANCE

Silca provides full assistance to purchasers of the machine. To ensure complete safety for the operator, any job not specified in this manual should be carried out by the manufacturer or in the special Service Centres recommended by Silca.

On the back cover of this manual there is a list of the Service Centres and relative addresses.

12.1 HOW TO REQUEST SERVICE

The guarantee attached to the machine ensures free repairs or replacements of faulty parts within 12 months of purchase. All other service calls must be arranged by the customer with Silca or with a Silca service centre.
CE DECLARATION OF MACHINE COMPLIANCE

SILCA S.p.A. - VIA PODGORA 20 (Z.I.)
31029 VITTORIO VENETO (TV) - (ITALY)
TEL. 0438 9136 - FAX. 0438 913800

Declares under its own responsibility that the Universal Diagnostic Device model SBB

complies with the requirements of the following European Directives:

European Union DIRECTIVE 2004/108/CE (Electromagnetic Compatibility)

and with the EN 61326-1 Standards

General Manager Basic Production Center

[Signature]