



SBB

Operating manual

D432985XA

vers. **4.0**





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How to buy?

1. Please contact our sales,
Email&MSN: eepine@gmail.com
2. Please visit our website:
www.epinetech.com

Suggested Products:

T300 Key Programmer
MVP Key Programmer
AD900 Transponder Key Programmer Maker 4D
AD100 Key Programmer
AK400 Key Programmer

Please visit our website for more information.



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 is used.

IDENTIFICATION OF THE SBB DEVICE

The device has an identification plate showing its serial number (fig. 1).

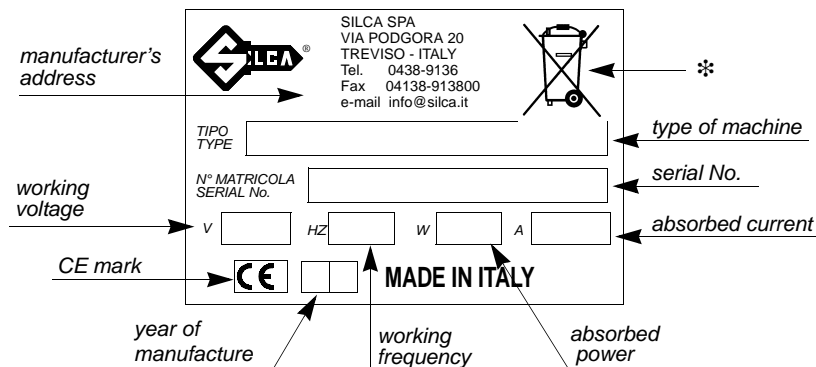


Fig. 1

(*) see chap. 11 "WASTE DISPOSAL", page 35.



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:

ENABLING BY PASSWORD	ENABLING BY TOKEN
Enter a different password specific to each new make released (see Ch. "Enabling") then you can always use the device for that given make. Apply for the passwords on the special form "USE AGREEMENT SHEET" included in the software update kit.	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 "ENABLING").



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® 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:

ENABLING BY MODEL CHANGE	ENABLING BY TOKEN
By using an optional SMART CARD "MODEL CHANGE" 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 "MODEL CHANGE").	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 "ENABLING").

SOFTWARE UPDATE (NEW MAKES RELEASED)

To use the new makes downloaded with the SW update (after purchase) proceed only as follows:

ENABLING BY TOKEN
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 "ENABLING").

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:

	INPUT	OUTPUT
Tension	90-264 Vac	15 Vdc
Current	1.0Arms @ 90V	1 A
Frequency	47-63 Hz	
Power		15 W

DIMENSIONS

Length: 220 mm
Width: 165 mm
Height: 50 mm
Weight: 300 g.



1.3 WORKING PARTS

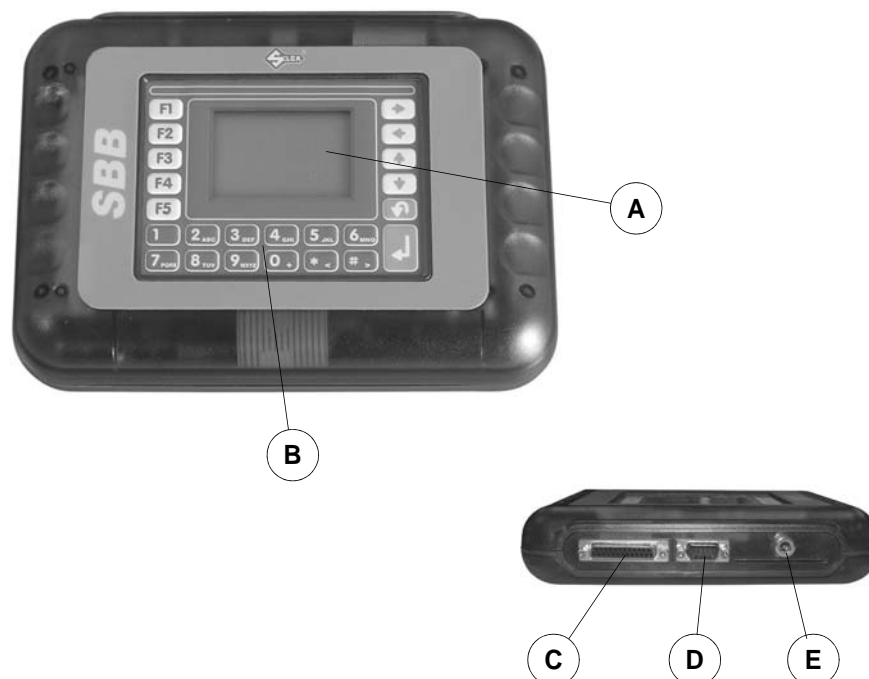
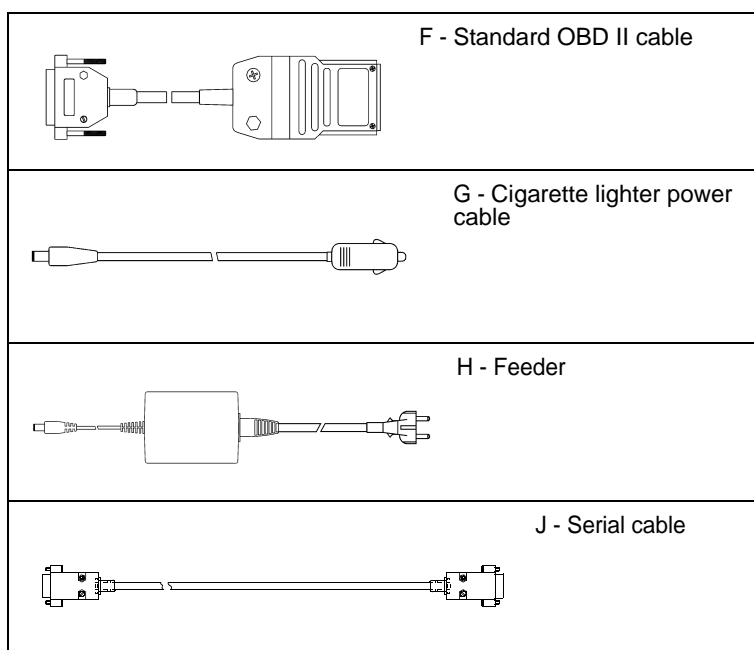


Fig. 2

- 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





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.

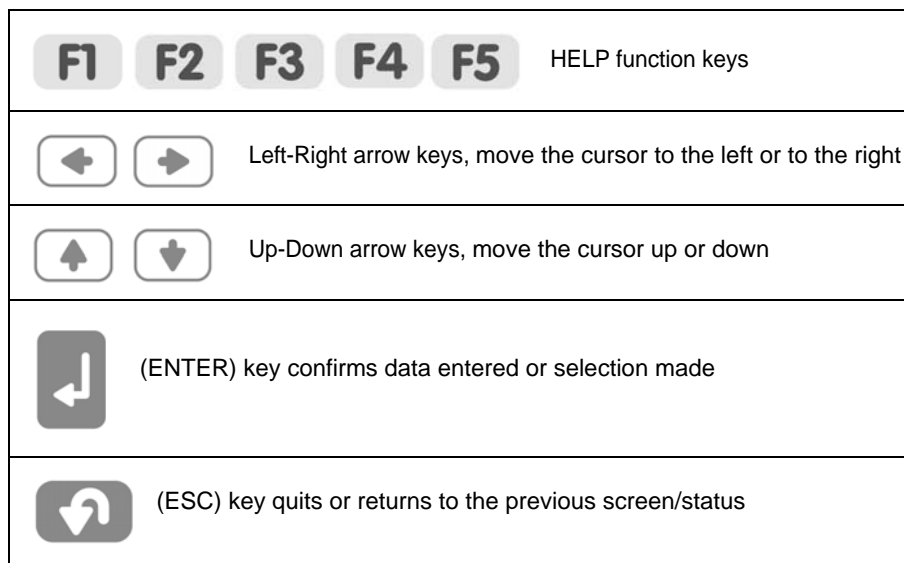


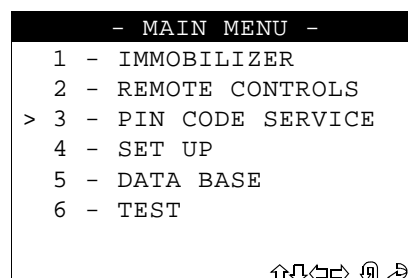
Fig. 3

LIQUID CRYSTAL DISPLAY

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

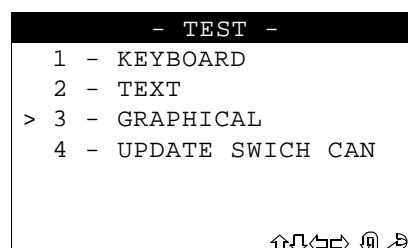
1.4 SYMBOLS

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



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.



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.



Fig. 4

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.

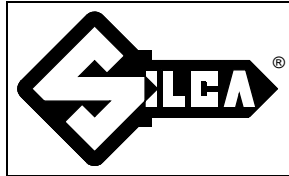


6 USING THE MACHINE

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. : XXXXXXXXXXXXX

Ver. (SW): XXX.XX.XXX
Ver. (DB): XX.XX
Update : XXXXXXXX
          (F1) to continue
  
```

The wording “**Update: XXXXXXXX**” 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:

```

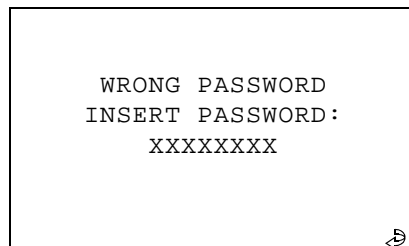
RIGHT PASSWORD
  
```

After a few seconds the program enters the main menu.



WRONG PASSWORD

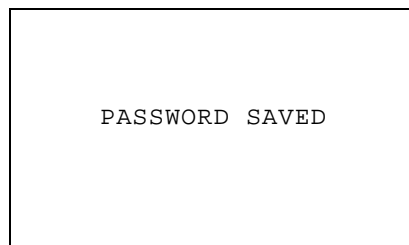
If a wrong password has been entered, a beep advises the user and the display shows:



- Repeat the operation and press **ENTER**.

6.2.1 PASSWORD (MEMORIZED)

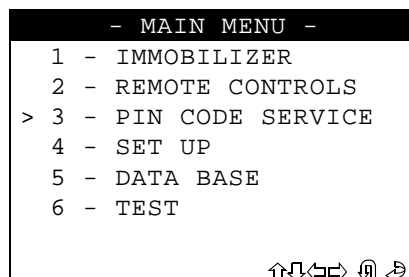
If the password has already been memorized on the machine (chap. 6.6.6 "MEMORIZE PASSWORD", page 20), when **F1** is selected the following message appears:




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

6.3 MAIN MENU

There are two ways to choose the menu:

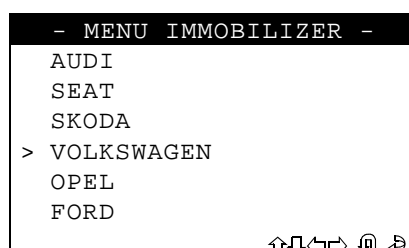


- Use the , arrow keys for selection then press **ENTER**, or **digit the number** corresponding to the function.

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.

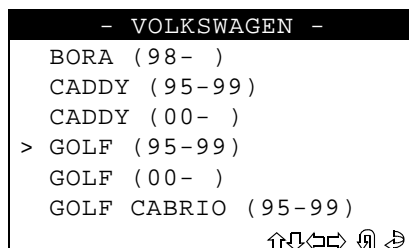




SELECTING THE CAR MAKE

- Use the $\uparrow\downarrow$ 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. 9 "HELP MENU", page 32).

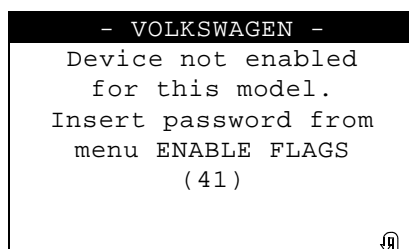
6.4.1 SELECTING THE CAR MAKE

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 \Rightarrow MODEL \Rightarrow 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.

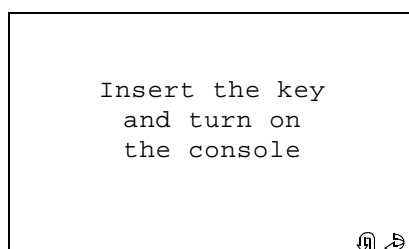
6.4.2 CAR MODEL NOT ENABLE

If a car model that is not enabled is selected, a beep is heard and the display shows:



6.4.3 CAR MODEL ENABLED

If a car model that is enabled has been selected, the display shows:

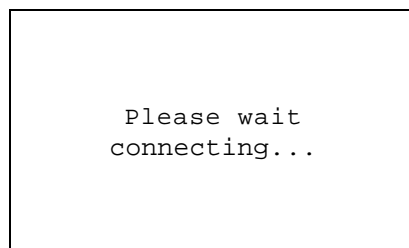


- Press **ESC** to quit.
- Press **ENTER** to continue.



6.4.4 COMMUNICATION PROCEDURE WITH THE IMMOBILIZER

The following message appears:



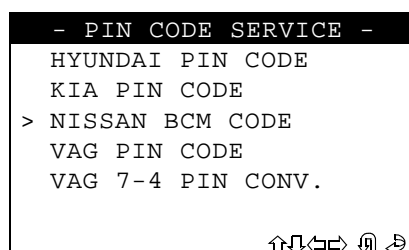
The communication procedure with the immobilizer starts; if the car model selected is correct and the immobilizer is detected, the **Functions menu by make appears**, otherwise an error message is shown (see chap. 8 "WARNING/ERROR MESSAGES", page 25).

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:



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

Press **ESC** to quit.

6.5.1 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.

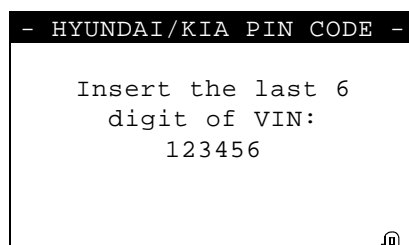
NOTE: this function can only be used to obtain the PIN CODE for HYUNDAI® and KIA® relating to SYSTEM 2 immobilizers.

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:



- 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.

6.5.2 NISSAN BCM CODE

Special function capable of reading (for some NISSAN USA models only) the vehicle's BCM immobilizer unit serial number directly from the OBD-II socket. To enable this new function (for SBB FL and SDD devices only) use the special FORM to apply to the special ZZ FNT-05 function for the enabling PSW, then enter the PSW into the device.

NOTE: To programme new keys for some new Nissan USA models a specific Pin Code is required for each BCM unit. To get this PIN read the BCM unit serial number then use the PC SW provided by Silca to convert this number into a PIN code.

- Per attivare la funzione selezionare “PIN CODE SERVICE” -> “NISSAN BCM CODE” e premere ENTER.

6.5.2.1 SPECIAL FUNCTION NOT ENABLED

If the function is not enabled, a buzzer sounds and the message appears:

```

NISSAN BCM CODE
Device not enabled
for this model.
Insert password from
menu ENABLE FLAGS
(41)

```

6.5.2.2 SPECIAL FUNCTION ENABLED

If the function is enabled, the display will show:

```

Turn the ignition on!
Press any key...

```

- Turn the key to the ON position.
- Press any key.

If SDD/SBB has detected a BCM unit, the display will automatically show:

```

- NISSAN BCM CODE -
BCM CODE: XXXXX
ESC per uscire

```

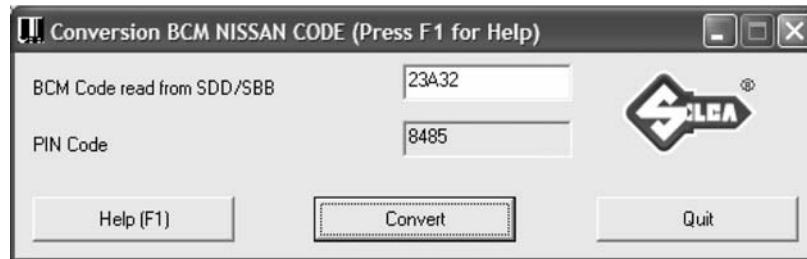
BCM CODE: (XXXXX) indicates the immobilizer unit serial number. Transcribe the 5 digit code shown by SDD/SBB and use the Silca NISSAN BCM CODE CONVERTER program.

Press **ESC** to quit.



6.5.2.3 SILCA NISSAN BCM CODE CONVERTER SW

This SW is used to convert the "BCM CODE" immobilizer unit serial number to the PIN code required in order to programme new keys.



Enter the BCM code read by SDD/SBB into the appropriate field and press the convert button.

IMPORTANT: the BCM code can be found also on the label attached to the immobilizer unit (the unit is located on the driver's side between the instrument panel and steering wheel). Below is an illustration of the label.



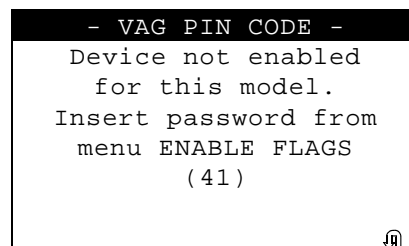
The BCM codes for these two units are F3661 and 11120 respectively.

6.5.3 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:

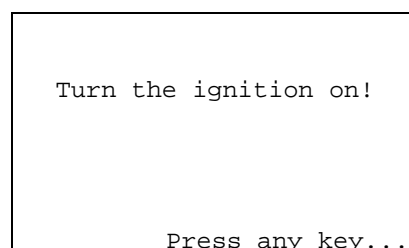
6.5.3.1 DISABLED VEHICLE MODEL

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



6.5.3.2 ENABLED VEHICLE MODEL

If the function is enabled the following message appears:

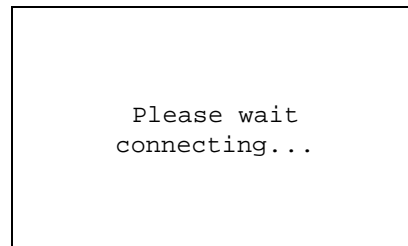


- Turn the key to the ON position.
Press any key.



6.5.3.3 COMMUNICATION PROCEDURE FOR PIN CODE READING

The display shows:

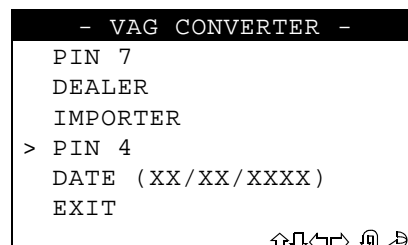


The communication procedure starts with the vehicle control panel memory. Different screens may appear, according to the type of control panel on the vehicle.

6.5.4 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.

6.5.4.1 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

6.5.4.2 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.



The stamp shown above is often found in the vehicle maintenance booklet.

- To activate the function, select "**DEALER**" and press **ENTER**.



6.5.4.3 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.

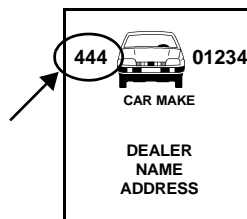


Table of currently known Importer Codes.

COUNTRYIMPORTER CODE

ITALIA - 264
 ENGLAND - 210
 ISRAEL - 730
 USA - 444
 CANADA - 999
 SPAIN - 572
 PORTUGAL - 261
 RIUNION ISLAND - 387

- To activate the function, select "**IMPORTER**" and press **ENTER**.

6.5.4.4 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.

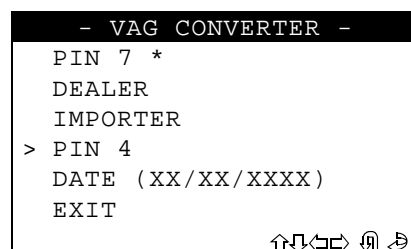
It is calculated by the device when the other codes are known: Code7, Dealer Code, Importer Code and date of issue.

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.
- o activate the function, select the figure to insert and press **ENTER**.

An asterisk will confirm that the figure has been entered.



- 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:

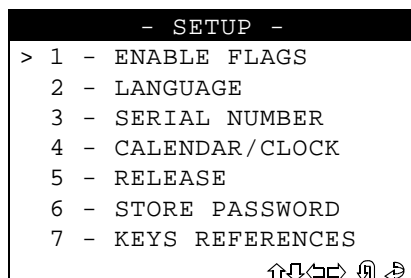
- The **date of issued** of CODE;
- 3 of the 4 codes required;

The missing CODE can be found. Just insert the 3 items of known data and the missing figure will appear automatically.



6.6 SETUP

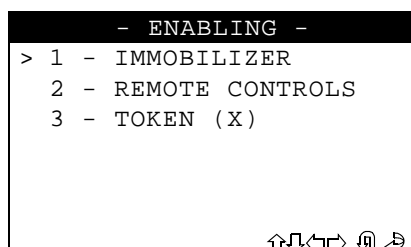
This section contains the various setting menus for the machine.
Select "**SETUP**" from the main menu and press **ENTER**.



- Select and press **ENTER**.

6.6.1 ENABLING

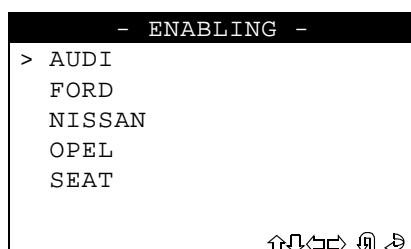
After selection the display will show:



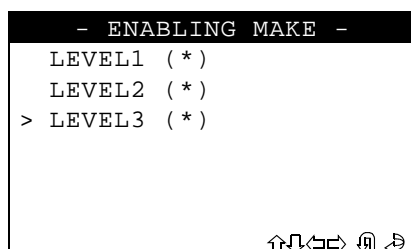
- Select IMMOBILIZER to view the vehicle makes available for entering enabling in the "Immobilizer" function;
- Select REMOTE CONTROLS to view the vehicle makes available for entering enabling in the "Remote Controls" function;
- Select TOKEN to view the tokens available; further tokens can be loaded.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



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



To enter the enabling password applied for with the document provided with the software update disk (software application FORM).

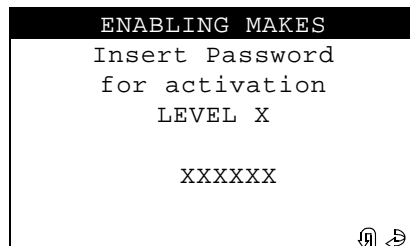
- Select the level of enabling and press **ENTER**.
- Select **ESC** to quit.

NOTE: the levels marked (*) are already enabled for operation.



PASSWORD ENTRY

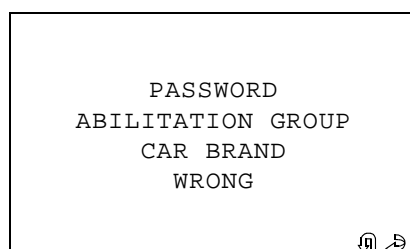
After selecting the enabling level the display will show:



- 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:

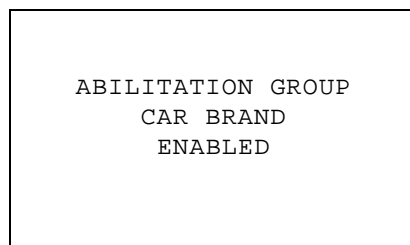


- Repeat the operation.

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).



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:

ERROR NUMBER	ERROR MESSAGE ON DISPLAY	CAUSE/SOLUTION
1	SMART CARD. COMMUNICATION ERROR. CHECK INSERTION POSTION	The card has not been inserted properly, or is damaged
2	SMART CARD. TYPE MISMATCH	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
3	SMART CARD. ALREADY USED	The card has already been used and cannot be re-used
4	SMART CARD. VERSION MISMATCH. FIRMWARE UPDATE REQUIRED.	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
8	SMART CARD. WRONG TOKEN NUMBER	The card is damaged, return to Silca

- 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:

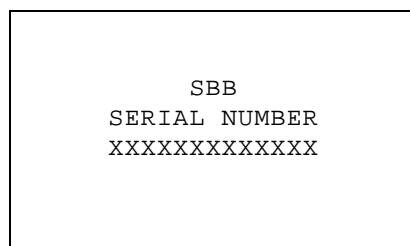


- Select the language and press **ENTER**

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:



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:

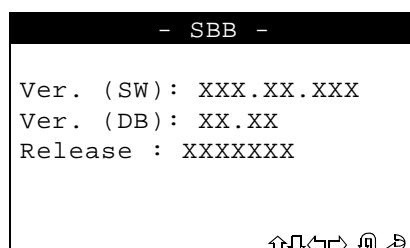


- Press **ESC** to quit.
- Select **ENTER** to continue.
- Follow the instructions given by the device.
- The user is not enabled to the TIME/DATE changing functions of the clock.

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:



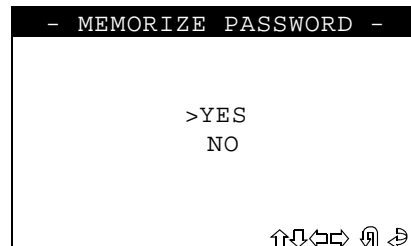


- Ver. (SW): version of the **internal program**
- Ver. (DB): version of the **car makes-models database**
- Update: **database update** level given by the manufacturer's code.

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:

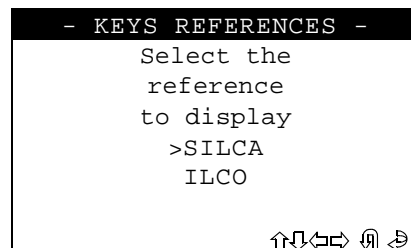


- Select and press **ENTER**.
- Select **ESC** to quit.

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:

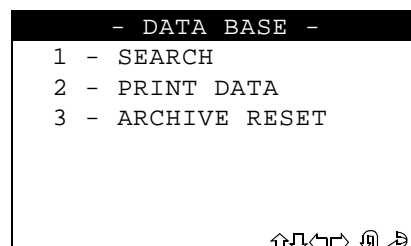


- Select and press **ENTER**.
- Select **ESC** to quit.

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:



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 :	XXXXXXXXXX
MODEL :	XXXXXXXXXX
SURNAME :	XXXXXXXXXX
REG.NO. :	XXXXXXXXXX

- 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 (0)	
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

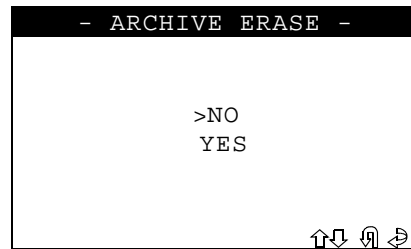
At present this function is not active.



6.7.3 ARCHIVE ERASE

This function is used to erase all user data in the archive.

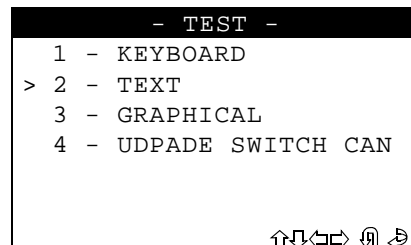
- Select "ERASE ARCHIVE" from the "**ARCHIVE**" menu; the display will show:



- 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:



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.

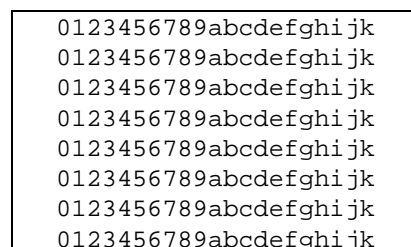
TEST RESULT:

- 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.



- 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.

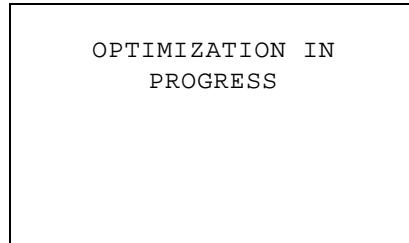
- Select "**GRAPHICS**" from the "TEST" menu and check that all the pixel on the display are illuminated.
- Press a key to quit.



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:



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



7 MODEL 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).



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:

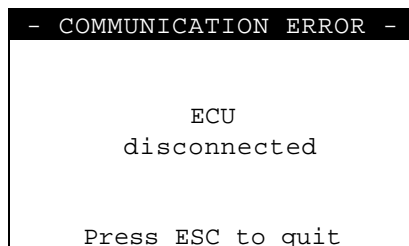
ERROR NUMBER	ERROR MESSAGE ON DISPLAY	CAUSE/SOLUTION
2	SMART CARD. TYPE MISMATCH	Try updating the device with the latest version available and if this does not work, return the card to Silca as it may be damaged.
3	SMART CARD. ALREADY USED	The card has already been used and cannot be re-used
4	SMART CARD. VERSION MISMATCH. FIRMWARE UPDATE REQUIRED.	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.
5	SMART CARD. DEVICE MISMATCH. FIRMWARE UPDATE REQUIRED.	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.
6	SMART CARD. SERIAL NUMBER MISMATCH	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.
7	SMART CARD. WRONG FLAGS VECTOR	The card is damaged, return it to Silca.

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

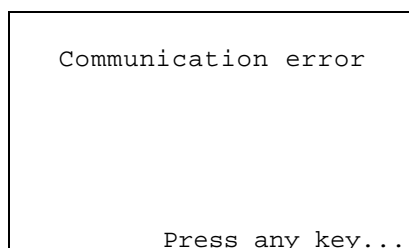


8 WARNING/ERROR MESSAGES

ERROR MESSAGE 1

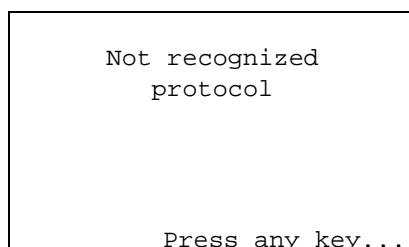


ERROR MESSAGE N° 2



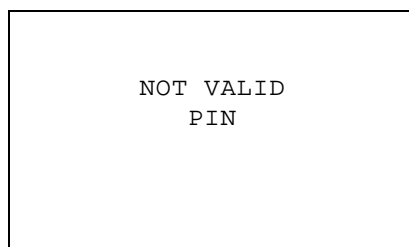
- These error messages may appear during communication with the immobilizer if the connection is cut off, or in the case of physical disconnection between the device and immobilizer: disconnect the device from the socket and repeat the operation.

ERROR MESSAGE 3



- 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 make/model.

ERROR MESSAGE 4



- 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

```
- PROG.NEW KEYS -

KEY i
Acquisition failed
Key faulty
Repeat procedure

Press any key...
```

- The key to be programmed is faulty, 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 the keys memorized before programming started are still enabled for operation.
- Press any key to continue.



ERROR MESSAGE 8

```
- PROG. NEW KEYS -  
  
KEY i  
Acquisition failed  
Key faulty  
Repeat procedure  
  
Press any key...
```

- 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 -  
  
Procedure interrupted  
Keys memorized before  
procedure started are  
enabled.  
  
Press any key...
```

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

ERROR MESSAGE 9

```
- PROG. NEW KEYS -  
  
KEY i  
Acquisition failed  
Disabled key  
Repeat procedure  
  
Press any key...
```

- 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**

```
- PROG. NEW KEYS -  
  
KEY i  
Acquisition failed  
Key already acquired  
Repeat procedure  
  
Press any key...
```

- The key to be programmed has already been programmed; 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 11

```
- PROG. NEW KEYS -  
  
KEY i  
Acquisition failed  
Key not present or  
without transponder  
Repeat procedure  
Press any key...
```

- The key to be programmed is without a transponder. Replace with a new key with transponder 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 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**

```
- PROG. NEW KEYS -  
  
Body Computer  
not properly  
programmed  
  
Press any key...
```

- 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

```
- RKE PROGRAM -  
  
REMOTE CONTROL N° XX  
Learning failed  
Detective rem.control  
Repeat the procedure  
  
Press any key...
```

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

```
- RKE PROGRAM -  
  
REMOTE CONTROL N° XX  
Learning failed  
Run-down battery  
Repeat the procedure  
  
Press any key...
```

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

```
- RKE PROGRAM -  
  
REMOTE CONTROL N° XX  
Learning failed  
Rem.ctrl alr. acquired  
Repeat the procedure  
  
Press any key...
```

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:

- CAR MAKE -	
A2:	(95-96)
CONNECT:	00
Pos.Con.:	(F3-F4)
KEY REF:	HU66AT6
Orig.Tr:	MEG/CR
RW2/RW3 ID:	48
F2-F3-F4	↔↔↔↔↔↔
N.KEY:	8
Self P.:	(F2)

- 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:

- CAR MAKE -	
ON BOARD PROGRAM A	
1 - Programming new	
keys without use of	
programmed keys	
↔↔↔↔↔↔	

**F3-F4**

Press the “F3” function key, the display will show the position of the connector (Graphic Image)

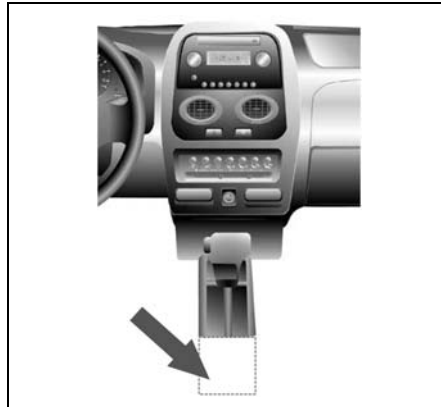
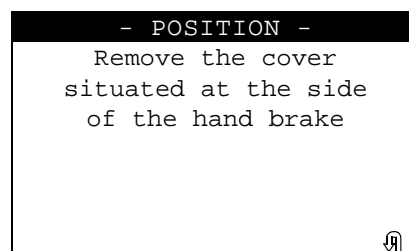


Fig. 7

- Select **ESC** to quit.

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



- 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.

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

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.

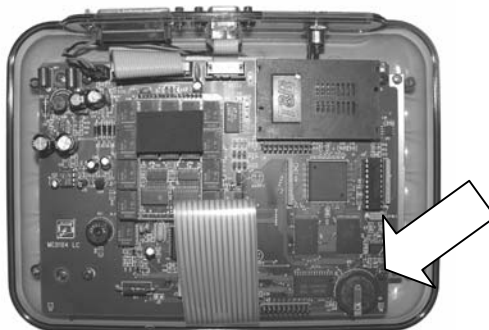
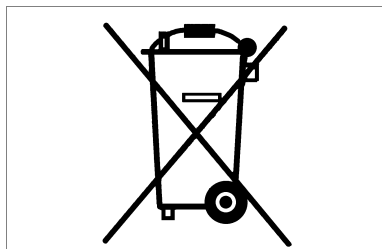


Fig. 8



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.



VITTORIO VENETO 21/06/2006

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

Corrado Fischer

