

BMW CAS1 – CAS3 (E65, E60-E64, E9x, E70) Key Programmer
Version: **BMWProg - OBD** - v 7.0 (Hand-Held Style)



FUNCTIONS **BMWProg - OBD**

- **BMWProg** is designed for Key and Chip programming into the BMW CAS module.

This version works with **CAS1, CAS2 and CAS3** modules via diagnostic connector of the car.

Description **BMWProg - OBD**

Works on the **BMW E65, E60-E64, E70, E9x**

Programmer is designed in the Hand-Held housing which have:

- color LCD display with backlight
- Keyboard
- Cable connector
- Connector for power supply (12-15v, **positive** pin – in center)
- USB connector for connecting to the personal computer for further updates.



Programmer should be connected to the OBD socket of the car.

Controls and Indicators



Connect OBD cable to the programmer and to the vehicle OBD socket.

BMWProg will get power supply from the OBD socket and will be turned "ON" automatically.


On the display will appear next picture:



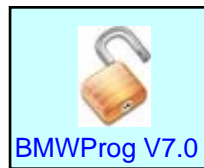
This picture will be shown unless you enter the correct pin code of the device

BMWProg is delivered with the PIN code – **0000**.
We strongly recommend you to change PIN code after first using of the device.

Entering the PIN code : Enter Pin code from the keyboard and press button "ENTER"

In the case of the **error**, press button  and enter **PIN** again.

If **PIN** is **OK**, you will see next screen within 3 seconds.



SW version

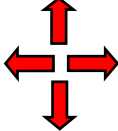
IMPORTANT → After 5 wrong attempts of the entering the PIN code the device will be locked for 30 min.

MENU structure


1. Chip init (PCF7936)
2. Key init (STARC)
3. Keyless init
4. Preparing Key -----
 1. Check CAS freq.
 2. Check key
 3. Program key/chip ----- Chip [PCF7936]
Key 868 Mhz
Key 433 Mhz
Key 315 Mhz
 4. Exit
5. CAS Ident -----
 1. Test Connection
 2. Get CAS Software Version
 3. Change CAS Software
 4. Restoring original SW
 5. Stored CAS SW numbers
 6. Exit
6. Settings -----
 1. Change PIN – code
 2. Check PIN [On/Off]
 3. Clear History List
 4. Speaker [On/Off]
 5. LCD contrast
 6. Display Update Code
 7. About

Browsing the menu of the device is possible with the keyboard of the programmer (for example for selecting the menu "ABOUT" it is necessary to press 6 - 7 only).

Arrows buttons


Arrows buttons  are using to go through menu

Entering to the next menu position press button “” (also can to use a button “ENTER”)

Returning to the previous menu position - button “” (also can to use a button “ENTER”)

6. Settings

6.1 Changing the PIN code

- Go to the menu 5 -1 “Change PIN – code”
- Enter a new PIN code
- Confirm with a button “ENTER”
- Exit from this menu without changing the PIN code can be done with  button



6.2 Check PIN [On/Off]

- Turning PIN code On/Off



6.3 Clear History List

- Clearing the list of the software versions that was in the CAS modules before changing SW
- *) This list contains software versions that was placed in the CAS modules BEFORE their changing in the menu [5.3 Change CAS Software](#). This list has last 10 jobs of the SW changing. This list of the software versions needed for knowing what SW you need to choose in the menu [5.4 Restoring original SW](#) when you need to place back the original SW after Key programming procedure.

6.4 Speaker [On/Off]

- Turning all sounds On/Off

6.5 LCD contrast

- Adjusting Display Contrast (button  - make the display lighter, button  - darker)

6.6 Display Update Code

- Displays Update Code of the Device

6.7 About

- Displays current software version

Hardware preparation

OBD cable should be inserted into the **BMWProg** and **diagnostic OBD II socket** of the car.

Select in the menu: **1. Chip init (PCF7936)** - for programming the chip PCF7936
2. Key init (STARC) - for programming the Key
3. Keyless init - for programming the Key with Keyless function

BMWProg will identify type of the **CAS** automatically.

After establishing the connection, LCD will display VIN and frequency of the radio channel of the central lock.

(868 Mhz, 433 Mhz, 315 Mhz)

VIN:....123A123456

Freq: 868 Mhz

Wait...

In case of the not proper detection of the CAS or bad connection, the screen will display – **CAS detect ERROR!**

In this case

you can check connection with the Gateway and CAS in the menu **5. CAS Tools** ----- **1. Test Connection**

Wait for this screen!!!

Key
Programming
OK!

Insert **Specially PREPARED KEY** into the Ignition lock, turn ignition "ON" and wait approximately 2 -3 sec.

If you have a plastic key - you need to insert key into the key housing and wait 5 sec.

Press button START/STOP Engine.

Ignition will be turned "ON".

If Programming was OK, but Ignition doesn't "ON" - check Key in the Key Preparing menu

4-2: Key Prepare – Check key.



IMPORTANT:

For **Key Init mode** you should use **Preparing Key (STARC) menu only.**

For **Keyless init mode** you should use **Preparing Key with Keyless function menu only.**

Preparing Keys and Transponders

4. Preparing Key -----
1. Check CAS freq.
 2. Check key
 3. Program key/chip -----
- Chip [PCF7936]
Key 868 Mhz
Key 433 Mhz
Key 315 Mhz
Keyless 868 Mhz
Keyless 433 Mhz
Keyless 315 Mhz

Chip *is named* - PCF7936

Key *is named* - Key

Key with Keyless function *is named* – **Keyless** (for vehicles with Comfort Access function)

The Key or the Chip **should be prepared** for programming into the CAS module.

It can be done in the menu **4. Preparing Key**

4.1 Check CAS frequency – detection of the Radio Frequency of the central lock

4.2 Check Key – checking the key or the chip for a possibility of the programming in the BMWProg
– checking already prepared key

Only blank key or chip can be programmed. !!!!!

BMWProg can check the type and mode of the transponder.

4.3 Program key/chip - key programming with selecting of the RF of the central lock

- chip programming



BMWProg can get power supply from the 12-15 v power adapter (positive pin in center).



The key or the chip should be placed **vertically** in the antenna.



CAS Tools menu (extra functions)

- 5.CAS Tools -----**
1. Test Connection
 2. Get CAS Software Version
 3. **Change CAS Software**
 4. Restoring original SW
 5. Stored CAS SW numbers
 6. Exit

5.1.Test Connection – this function checks the connection with Gateway and CAS modules (CAN bus only).

If connection with modules is OK, then **BMW-Hardware number** of the each module is displaying.

If connection with a module is absent – then **No Response** message is displaying.

5.2.Get Software Version – this function displays the current SW version of the CAS module

example: ZL_Referenz: 000428TDF207S

5.3.Change CAS Software – this function **replaces** the current SW version of the CAS module for a properly **Key Programming**

***) time for replacing CAS SW approx 9 min.**



Replacing of the SW version is needed only in **ONE case**: If Key Programming is stopped with **“CAS Unlock Error”** message !!!

5.4 Restoring original SW – this function write back the original SW that was in the CAS before the changing it in the menu **5.3 Change CAS Software**

You must choose SW version from the list and start the programming.

) SW number you can see in the menu **5.2.Get Software Version **before** replacing the software in the CAS or in the menu **5.5 Stored CAS SW numbers** **after** replacing the software in the CAS.*

***) Run this procedure if something don't work in the car after key programming.*

****) If you can not find needed SW version in the list, try to program all versions from the list.*

5.5 Stored CAS SW numbers – this function displays the list of the **last ten** SW replacements.

**) Last SW replacement is placed on the top of the list*

***) This list contains software versions that was placed in the CAS modules **BEFORE** their changing in the menu **5.3 Change CAS Software**.
This list of the software versions needed for knowing what SW you need to choose in the menu **5.4 Restoring original SW** when you need to place back the original SW after Key programming procedure.*



*Function **Clear History List** – clearing the list of the stored CAS SW numbers is placed in the menu **6. Settings***

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