

BMW CAS1 – CAS3 (E65, E60-E64, E9x, E70) Key Programmer
Version: **BMWProg - OBD** - v 4.9 (Hand-Held Style)



1.FUNCTIONS **BMWProg - OBD**

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

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

2.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)



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

3.Controls and Indicators



Connect OBD cable to the programmer and to the CAR OBD-II socket to turn the BMWProg "ON"


- LCD will displays next screen:



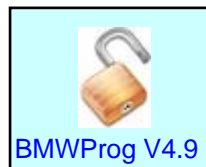
This screen will be displayed till PIN code will be entered.

iProg is delivered with the PIN code – 0000.
Strongly recommended to change PIN code after first time of the turning BMWProg "ON".

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 5th attempt of the entering a wrong PIN, BMWProg will be blocked for 30 minutes

4. MENU structure

1. Chip init (PCF7936)

2. Key init (STARC)

3. Preparing Key -----

1. Check CAS freq.	
2. Check key	
3. Program key/chip -----	PCF7936
4. Exit	315 Mhz STARC
	433 Mhz STARC
	868 Mhz STARC

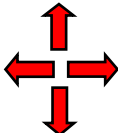
4. Settings -----

1. Change PIN – code	
2. Speaker On/OFF	
3. LCD contrast	
4. About	

5. CAS Ident

You can enter to the desired option by the pressing digits buttons. (To enter to the menu About enough to press 4-4, to enter to the menu Check CAS freq. – 3-1)

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")

Settings

4.1 Changing the PIN code

- Enter to the menu 4 -1 "Change PIN – code"
- Enter a new PIN code
- Confirm the entering with a button "ENTER"
- Exit from this menu without changing the PIN code – button 



4.2 Speaker On/Off

- Turn all sounds On/Off

4.3 LCD contrast

- Contrast settings (button  - light, button  - dark)

4.4 About

- Displays current software version

5. 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

BMWProg will identify **CAS** type automatically.

After good 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 Ident**)

Wait for this screen:



Insert a **Specially PREPARED KEY** into the Ignition lock, turn ignition "ON" and wait approximately 2 -3 sec. For a plastic key you need to insert key into the key housing and wait 5 sec. Press button START/STOP Engine. Ignition will turned "ON".

If Programming was OK, but Ignition doesn't "ON" - check Key in the Key preparing menu
3-2: Key Prepare – Check key.

5. Preparing Keys and Transponders

3. Preparing Key -----
- 1. Check CAS freq.
 - 2. Check key
 - 3. Program key/chip ----- **PCF7936**
 - 315 Mhz **STARC**
 - 433 Mhz **STARC**
 - 868 Mhz **STARC**

Chip is named - **PCF7936**
Key is named - **STARC**

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

It can be done in the menu **3. Preparing Key**

- 1. **Check CAS frequency** – detection of the Radio Frequency of the central lock
- 2. **Check Key** – checking the key or the chip for a possibility of the programming in the BMWProg

Only blank (with a factory codes) keys or chips can be programmed. !!!!!

BMWProg can check type and state of the transponder.

- 3. **Program key/chip** - key programming with selecting of the RF of the central lock or 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.

