

For Auto Locksmit Association only !!!

Emergency Service Manual

BMW CAS1 – CAS3 (E65, E60-E64, E9x, E70) Key Programmer
Version: **iProg-BMW © OBD - v 5.0 (NOKIA Style)**



FUNCTIONS *iProg-BMW © OBD*

¾ iProg-BMW 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.

Description *iProg-BMW © OBD*

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

Programmer is designed in the **NOKIA** cellphone housing which have:



- color LCD display with backlight
- Keyboard
- Cable connector
- Connector for battery charger **IMPORTANT Æ For charging the phone should be switched Off**
- Li-Ion battery with capacity 700 mA/h



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

Controls and Indicators




Press and hold the red button  for approximately 3 seconds to turn the iProg "ON"
 Press and hold the red button  for approximately 5 seconds to turn the iProg "OFF"


- LCD will displays battery power meter and 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 iProg "ON".

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

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, phone will be blocked for 30 minutes

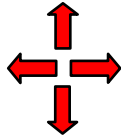
MENU structure

- 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. CAS Ident -----
 - 1. Test Connection
 - 2. Get Software Version
 - 3. Change CAS Software
 - 4. List Stored CAS SW numbers
 - 5. Clear History List
 - 6. Exit
- 5. Settings -----
 - 1. Change PIN – code
 - 2. Battery status
 - 3. Sleep time -----
 - 1. 10 min
 - 2. 20 min
 - 3. 30 min
 - 4. 40 min
 - 5. 50 min
 - 4. Speaker On/OFF
 - 5. LCD contrast
 - 6. About

Arrows buttons




Arrows buttons





are using to go through menu

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

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

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 
- Exit from this menu without changing the PIN code – button 



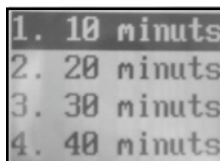
4.2 Battery Status

- Check battery capacity



4.3 Sleep time [xx min]

- Setting the time for automatic power “OFF” from 10 till 50 min with a step in 10 min (for battery saving)
- Setting option – **Always “ON”**
- Current Sleep time is displayed in the highlighted line



4.4 Speaker On/Off

- Turn all sounds On/Off

4.5 LCD contrast

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

4.6 About

- Displays current software version

Hardware preparation

OBD cable should be inserted into the **iProg** 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

iProg 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!**

Wait for this screen:

Key
Programming
OK!

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.

*) For this operation a **programming station** is required

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 iProg.

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

⌘ **Antenna** should be connected to the iProg.

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 iProg

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

iProg 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



iProg-BMW with the connected antenna station

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



CAS Ident menu (extra functions)

- CAS Ident -----
1. Test Connection
 2. Get Software Version
 3. Change CAS Software
 4. List Stored CAS SW numbers
 5. Clear History List
 6. Exit

1. Test Connection – this function check 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.

2. Get Software Version – this function display the current SW version of the CAS module

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

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



This replacing of the SW version is needed only in one case: if **Key Programming** is stopped with **“Unlock Kennung Error”** message !!!

4. List Stored CAS SW numbers – this function display the list of the last ten SW versions that were changed (last changing – on the top of the list)

5. Clear History List – clearing the list of the stored CAS SW numbers

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