

BMW KeyProg OBD v4.3 (ISTA - P 43+)

KeyProg OBD v.4.3 is a stand-alone device for electronic key registration to **BMW** and **Mini** vehicles (model years 2005-2014). Supported cars: E60, E65, E66, E70, E71, E81, E82, E87, E88, E90, E91, E92, E93, R54, R56 with key authentication units CAS1, CAS2, CAS3, CAS3+, including SOPT and SOPT+ enabled mode.



Main features of the system.

- CAS unit programming through the diagnostic OBD-II connector.
- SOPT enabled systems support (ISTA- P 39- 42).
- SOPT+ enabled systems support (ISTA-P 43 – 55).
- Simple and convenient interface (no buttons, no complicated instructions).
- Fully automatic operation.
- Fast programming protocol (registration of one key takes for 20-40 seconds for SOPT and earlier, 10-15 minutes for version SOPT+).
- Support for original keys (315, 433, 868 MHz) and PCF7936 transponder.
- Up to 10 key could be registered in one CAS unit. 11th key will be registered as first.
- Internet updates capability (by serial number request).
- DTC clear function *.
- ELV (steering wheel blocking) synchronization function*.
- Unblocking door locks, disabling alarm system *.

* - *functions performed automatically.*

Light and sound indication

The sound signal and the LED blinks **GREEN**:

- | | | |
|--------------------------|---|--|
| Triple beep sound signal | – | Insert the key into coil-antenna. |
| Double beep sound signal | – | Insert the key into the ignition lock. |
| Single beep sound signal | – | Press the START button. |

Sound signal "Happy New Year" melody:

Completion work of the device.

The sound signal and the led blinks **RED**:

It means an error. It is necessary to count the number of monophonic sounds. The error consists of two numbers separated by a pause between the audio beeps, for example:

beep-beep-beep PAUSE beep-beep ... beep-beep-beep PAUSE beep-beep

This will indicate an error 32.

The sound of a siren and the led blinks **RED**:

Difficult error. For details use the program for updates **FLASHER**.



Operation sequence (step-by-step instruction)

1. Required initial conditions:

1. Car battery is fully charged (otherwise charging device is required);
2. Open the driver's door using the mechanical key (do not close the door in the process of work);
3. Press «Start» button. After completing these steps, start programming procedure (registration of keys) within 60 seconds.

2. Vehicles with disabled SOPT mode (before version 39):

1. Insert «**BMW KeyProg**» into **OBD** connector.
2. Wait for triple-beep sound signal (beep-beep-beep).
3. Insert new blank key (or transponder) into coil-antenna (**GREEN LED** will light up) and wait for sound signal.
4. «**Happy New Year**» melody means key programming completes successfully.
5. Unplug BMW OBD-Prog and start the car with just registered key.

3. Vehicles with enabled SOPT+ mode (version 39 - 43 and above):

1. Insert «**BMW KeyProg**» into **OBD** connector.
2. Wait for triple-beep sound signal (beep-beep-beep).
3. Insert new blank key (or transponder) into coil-antenna (green led will light up) and wait for sound signal.
4. Increasing beep turning into a continuous signal means preparing for programming **CAS** module. If you unplug BMW KeyProg the programming will not start.
5. During programming short sound signals and the led flashes green; it takes 6-12 minutes. You may remove new key from coil-antenna during procedure.
6. After double-tonal signal (beep-beep) insert the key into the ignition lock. Wait for the next sound signal.
7. After single-tonal signal (beep) press «**Start**» button. Wait for the next sound signal.
6. «**Happy New Year**» melody means key programming completes successfully.
8. Unplug BMW OBD-Prog, turn off the ignition and then start the car with just registered key.

Error codes and typical malfunctions

In case of interruption programming procedure of the CAS unit with SOPT+ enabled mode, flash-memory recording session remains open. You need to restart programming and wait for its completion, denoted by a triple beep. If any error occurs during programming procedure “**BMW KeyProg**” will give error code by sound signal ([see error table](#)).

Table beep codes and errors

Cod	Errors
12	CAS Detect Error
13	AIF Lesen Error (CAS Communication Error)
14	SOPT Status Read Error
15	CAS Answer Error
17	Key Init Status Error
18	Key Init Status 2 Error
21	KEY is not accepted. Use another key
23	It's impossible to recover key data from the CAS
31	TAG Write Error
32	TAG Access Error. TAG is not new
41	Init status LOCK Error
42	UnInit clear Error
43	CAS in program mode. CAS Reflashing needed
52	CAS Unlock Error
53	Unknown CAS software
54	Authentisierung Error
56	Authentisierung Timeout Error
Siren	Difficult error. For details use the program for updates FLASHER

TAG – Transponder Chip or original key (not China)

TO PURCHASE THE EQUIPMENT, AS WELL AS CONSULTING, MAINTENANCE,

PLEASE CONTACT US:

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