

# BMW KeyProg OBD v5.0 (ISTA - P 53+)

**KeyProg OBD v.5.0** 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 – 53).
- 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. 11<sup>th</sup> 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 - 53 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
<b>12</b>	CAS Detect Error
<b>13</b>	AIF Lesen Error (CAS Communication Error)
<b>14</b>	SOPT Status Read Error
<b>15</b>	CAS Answer Error
<b>17</b>	Key Init Status Error
<b>18</b>	Key Init Status 2 Error
<b>21</b>	KEY is not accepted. Use another key
<b>23</b>	It's impossible to recover key data from the CAS
<b>31</b>	TAG Write Error
<b>32</b>	TAG Access Error. TAG is not new
<b>41</b>	Init status LOCK Error
<b>42</b>	UnInit clear Error
<b>43</b>	CAS in program mode. CAS Reflashing needed
<b>52</b>	CAS Unlock Error
<b>53</b>	Unknown CAS software
<b>54</b>	Authentisierung Error
<b>56</b>	Authentisierung Timeout Error
<b>Siren</b>	Difficult error. For details use the program for updates <b>FLASHER</b>

***TAG – Transponder Chip or original key (not China)***

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