

# BMW OBD-Prog (vers. 2,5)

“BMW OBD-Prog” is a standalone device for electronic key registration on BMW passenger vehicles (model years 2005-2011). Supported cars: E60, E65, E66, E70, E71, E81, E82, E87, E88, E90, E91, E92, E93 with key authentication units CAS1 CAS2 CAS3 CAS3+, including SOPT enabled mode.



## Key features and distinctions

1. CAS unit programming through OBD-II connector.
2. ISSS version 39 and above.
3. No problem with SOPT system.
4. Simple and convenient interface (no buttons, no complicated instructions).
5. Fully automatic operation.
6. Fast programming protocol (it takes 10-20 seconds per key).
7. Support for original keys (315, 868 MHz) and PCF7936 transponder.
8. Up to 10 key could be registered in one CAS unit. 11<sup>th</sup> key will be registered as first.
9. Internet updates capability (by serial number request).
10. DTC clear function\*.
11. ELV (steering wheel blocking) synchronization function\*.
12. Unblocking door locks, disabling alarm system\*.

\* – functions performed automatically.

*2 year limited warranty. Special discount for F-body key programming tool.*

## Operation sequence (step-by-step instruction)

1. Required initial conditions:
  - a. car battery charged no less 70% (otherwise charging device is required);
  - b. turn on ignition and start the car twice with valid original key;
  - c. insert valid key into ignition lock and pres “open door” button, start programming procedure within 30 seconds.
2. Insert OBD-Prog into OBD connector.
3. Wait for triple-beep sound signal.
4. Insert new blank key into coil-antenna (green LED will light up) and wait for sound signal:
  - a. “Happy New year” melody for car without SOPT system. It means key programming completes successfully. Unplug OBD-Prog and start the car with just registered key.
  - b. Tri-tonal signal for car with SOPT system. Go to steps 5-6-7.

### ***Following steps only for cars with SOPT system!***

5. Insert key into ignition-lock and turn on ignition. Wait for sound signal.
6. “Happy New year” melody indicates that key programming procedure completes successfully.
7. Unplug OBD-Prog.
8. Turn off ignition and then turn on again and start the car.

If any error occurs during programming procedure OBD-Prog will give error code by sound signal (see error table).

## Error codes

Continuous beep	Unsupported model
12	CAS Detect Error
13	AIF 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
33	No TAG. Insert TAG into coil
41	Init status LOCK Error
42	Unit clear Error
43	CAS in program mode. CAS Reflashing needed
52	CAS Unlock Error
53	Unknown CAS software
54	Authentication error
56	Authentication timeout error
57	ELV counter error