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BMW EWS-2

immo emulator, **E34**, **E36**, **E38**, **E39**, **E46** ver 2

Description:

Designed for BMW EWS-2 systems (EWS2, EWS3.2), E34, E36, E38, E39, E46 etc. Must store ISN (12-bits or $1 \frac{1}{2}$ chars long) before installation on car using configurator utility (old or reworked ver2 – no matter, both do the same job).

Preparation:

- Emulator must be in CONFIG MODE (JMP must be short place solder joint while configuring).
- Connect any K-line diagnostic adapter (D-CAN, EMUprog, VAG-KKL etc.), launch configurator software. Choose COM port, enter desired ISN number, press "Write". You can read ISN from emulator while it is in configuration mode.
- Remove solder joint (JMP open for NORMAL MODE), emulator is ready for installation now.

Installation:

- Remove original EWS2 control unit, locate +12v ACC, GND, IMMO lines. Attach emulator. Do not forget to short two starter relay wires (at EWS connector)!
- It's a good idea to install emulator inside ECU after protection circuits. You may power emulator from main relay output or "kl.15".
- Car is ready to start.

LED on emulator board:

- CONFIG MODE (JMP short): LED is ON at startup, goes off if valid CFG message received
- NORMAL MODE (JMP open): LED must blink continuously.



