



PSA

Peugeot / Citroen immo emulator

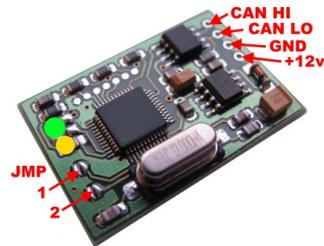
for 500 kB CAN speed,
self - teaching

Usage:

For PSA cars with 500kb CAN speed. Two alignment methods possible: store PIN directly into emulator using CAN logger / MBcan or use self-teaching mode (Plug&Play, but may take some time for alignment).

Self teaching mode:

- Original immobilizer removed (or ECU “on the bench”) , both JMP on emulator board open. Connect CAN wires, power emulator directly from +BAT. Both LEDs (**GRN** and **YEL**) on emulator board must simultaneously flash multiple times.
- Switch IGN ON. **YEL** must blink (ECU requests received). Wait until **GRN** goes ON permanently and there is no more activity (**YEL** isn't flashing). Theoretically it may take up to some days (worst case), but usually 30..60 minutes are enough for first authorization, then additional 10 minutes for full completion.
- Switch IGN OFF, wait until main relay releases, switch IGN ON again. Wait for **GRN** as before. Both LEDs may go off for some time while recalculating next possible PIN.
- IMPORTANT – emulator must remain powered from +BAT (uninterrupted power supply!), otherwise process may start from beginning.
- Repeat previous step until there is immediate and stable authorization (short **YEL** blink at IGN ON, then **GRN** immediately) for at last 5 passes. You can check current PIN using CAN logger or MBcan (“Read” PIN procedure).
- Remove power from emulator, short both JMP (place solder joints), install it permanently on car (power it from +IGN or +PWR from main relay now).



Configuration mode:

- JMP on emulator board: one of them must be shorted (no matter which one), another one open.
- Using MBcan: simply read or write emulator.
- With logger: speed 500kB, 11-bit id. To store PIN into emulator must convert it to HEX. Example: PIN ABCD is equal to 41 42 43 44. To store this PIN must send frame:
0x7FE 5 55 41 42 43 44
- Response from emulator must look like below:
0x7FF 4 41 42 43 44
- To request actual VIN from emulator, must send:
0x7FE 5 00 00 00 00 00

Emulator will respond like above, frame with VIN data.

Normal mode:

Both JMP shorted. At power up both **GRN** and **YEL** must go on for a short blink. Then: **YEL**: ecu request received, **GRN**: ecu authorized. If **YEL** is still blinking, something is wrong with authorization.

