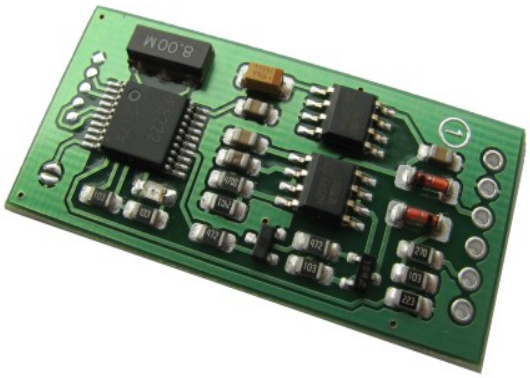


SKIM / SKREEM emulator for Chrysler, Jeep, Dodge.

VPW based sytems

Purpose:
Designed for ECU start authorization. Self – teaching, for VPW based systems (diag via pin 2 on OBD connector).

Installation:
It is possible to use original connector from SKIM module or pin header. Although, only 3 wires are mandatory:

- pin 2: GND (ground),
- pin 3: terminal “15” (+12v IGN ON),
- pin 5: VPW (J1850) network.

You can install emulator close to almost ANY control unit, because most of them are connected to VPW network.

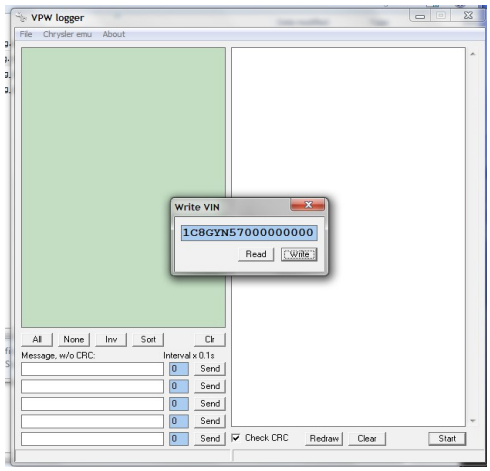
Usage:

- first use: switch ignition ON, observe LED on emulator board. Must see one short blink at power-on. After about 15 seconds must see series of short flashes. This means emulator is ready and aligned now. Switch off / on ignition, start a car. Immo indicator (in dashboard) must go off, LED on emulator must go on for 1 second (long flash).
- If everything is OK it is highly recommended to place solder joint (jumper, mcu pin 10 to ground) to avoid further updates by accident.

Advanced options:
It is possible to read / write / test emulator using VPW logger in case if self teaching fails for unknown reason:

- attach **VPWlog** hardware, launch software, press “Start”;
- from menu choose “Chrysler emu”;
- enter desired VIN, press “Write”;
- wait some seconds, press “Write” again;
- wait some seconds, press “Write” (must send VIN 3x to store it!), LED on emulator board must start to blink fast (VIN accepted).
- Place solder joint to avoid any update by accident.

Note – if same VIN already stored into emulator there is no any LED activity (because nothing to update). If solder joint placed, LED blinks (wrong VIN!), although actualy no update takes place.



LED on board:

- one short blink at startup;
- long blink (~1 second): request from ECU received.
- 8 short blinks: new immo data received, different from already stored values.

Some things to know:

SKIM - Sentry Key Immobilizer Module:
older system, separate remote, uses 4D (4E) type keys, 134kHz frequency on label;

SKREEM - Sentry Key Remote Entry Module:
later system, remote receiver integrated into immobox, Hitag2 based keys with integrated remote transmitter, 125kHz frequency on label. Later SKREEM versions has 8-pin connector and are designed for CAN network instead of VPW.

Both use same 6-pin connector , only 4 wires used.

Emulator works only for SKREEM with 6-pin connector (VPW).