

VAG

immo emulator, wfs-5

ver. 2

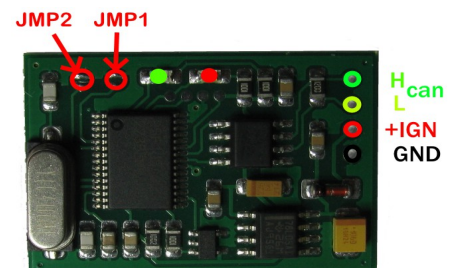
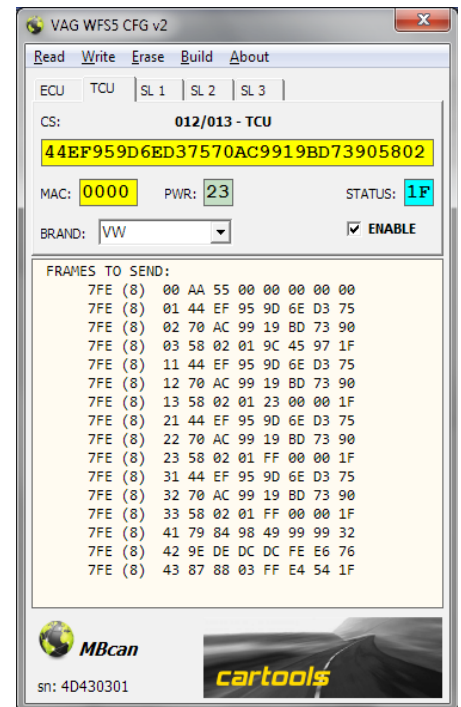
Usage:

VAG cars, WFS5 system, ECU, TCU, Slave1..3 authorization (WFS5 targets). CAN 500 Kb used for communication. Each WFS5 target may use own rules / immo DATA, emulator can authorize any or all of them.

Installation:

Must store IMMO data into emulator using any CAN logger or MBcan:

- **JMP1** and **JMP2** on board both OPEN to allow configuration mode,
- launch CONFIGURATOR software,
- choose targets, **ENABLE** necessary ones and enter immo data:
 - **IMMO CS** (WFS key), **MAC** (MAC bcm), **PWR** (power class) and **BRAND**;
 - **STATUS**: immo status response, if not sure what it means leave it as is (1F by default);
- when all targets are configured on screen:
 - using **MBcan**: simply write data into emulator;
 - using **CANary**: Build --> for CANary --> save file. You can load generated file into CANary and send all prepared frames;
 - using **any CAN logger**: Build --> Screen, you will see which messages are necessary for configuration. Message count may vary from 4 to 16, depends on how many targets must to be authorized;
 - emulator must acknowledge each message with ID 7FF, data must match;
 - **NOTE**: CAN communication speed is 500 Kb, STD ID's used, must allow 200 mS delay between frames, rules become active at next emulator startup (restart required);
- finally place solder joints to short JMP1 and JMP2 both to avoid any data updates by accident;
- install emulator on car, connections: PT-CAN, IGN_ON(Kl.15), GND.



LED behavior:

- **RED** and **GREEN** both go ON for 0.2s at startup (IGN_ON);
- **RED** blinking: at least one of enabled targets is NOT authorized (request received, DATA is not valid);
- **GREEN** is ON for 2 seconds: any enabled TARGET - received data is valid, response sent;
 - NOTE: TARGET may still remain unauthorized due to wrong MAC !!!
- **RED** and **GREEN** both alternating – CONFIGURATION mode, DATA received;
- **RED** or **GREEN** no any activity after startup blink – all enabled targets are silent (no request for authorization received) or all targets are DISABLED by rules.

