IMMO emulator Mitsubishi,

CAN HS, CAN FT

Purpose:

Designed for ECU start authorization. Self teaching, for CAN Bus systems with separate immobox. KEYLESS and IMMO-by-wire systems are **NOT** supported. Two versions available:

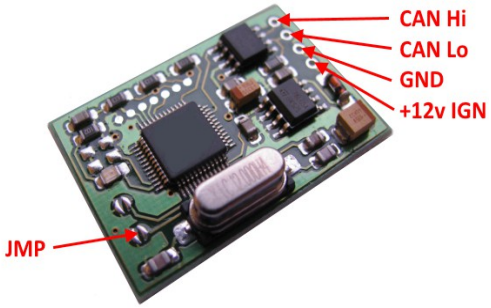
HS-CAN version, **MN141557** immobox:
GRANDIS 03-08, (BSY, BWC vw engines - not 4G6 !)
PAJERO IV(V80) 06-present
PAJERO/MONTERO SPORT II 08-16,
L200 IV 05-

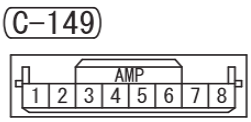
FT-CAN version, **MN141356** (or similar) immobilizer module:
OUTLANDER II 06-12
LANCER X 08-

Installation HS-CAN:

Original immobilizer connector (C-149) pinout, only used pins:

2 - GND
3 - CAN Hi
4 - CAN Lo
5 - IGN +12v



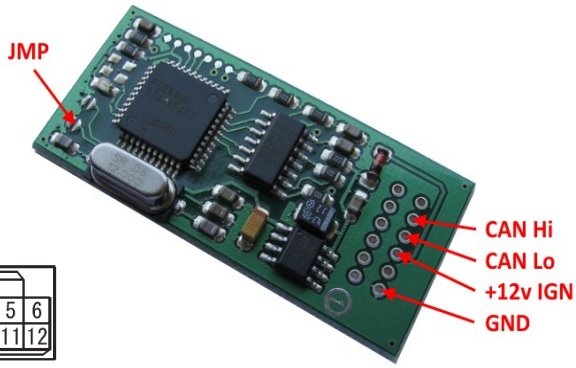


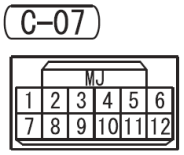
Installation FT-CAN:

Original immobilizer connector (C-07) pinout, only used pins:

7 - GND
9 - IGN +12v
10 - CAN Lo
11 - CAN Hi

You can use original connector from old immobox too – just solder it onto board.



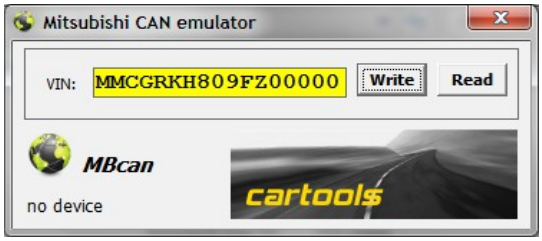


Usage:

- First use: switch ignition ON, observe LED on emulator board. Must see one short blink at power-on and one long blink in 3 seconds. First blink means emulator is powered on, second blink means authorization request received (it doesn't mean ECU is authorized!).
- After some seconds there must be series of 8 short blinks – new IMMO data from ECU received and stored. This means emulator is aligned and ready to start car now.
- Switch off / on ignition, start a car. If everything is OK, place solder joint (jumper, mcu pin to ground) to avoid further updates.

Advanced options:

- It is possible to read / write emulator data in case if self teaching fails using **MBcan** interface.
- In case of FT-CAN must use CAN HS-FT gateway (500kB to 83.33kB).
- Solder joint (JMP) bust be open (removed) to allow read / write.



LED on board:

- one short blink at startup;
- long blink (~1 second): request from ECU received,
- 8 short blinks: new immo data received (ECU), different from already stored value. If same data, no action. Using MBcan – write acknowledge.