

Mazda MX-5 / Fiat 124

IMMO emulator, CAN

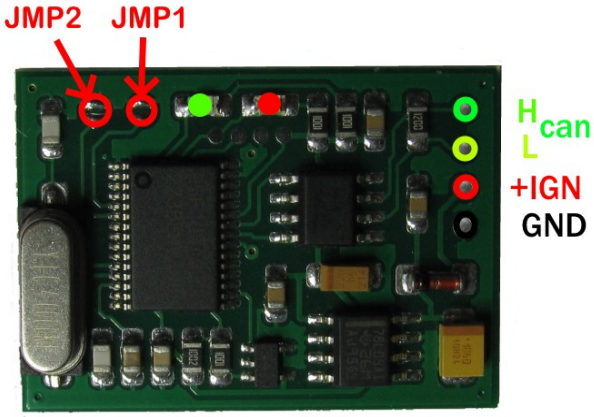
- Mazda MX-5 (ND): 2015 up,
- Fiat (Abarth) 124 Spider (type 348) : 2016 up.

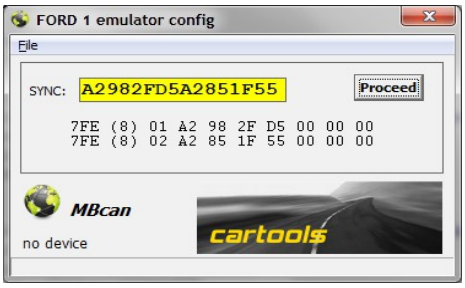
Designed for:

ECU authorization. Emulator is NOT Plug&Play, must store 8 bytes of SYNC before usage.

JMP1 and **JMP2:**

- **both open** for CFG mode,
- **any or both short** for normal mode (SYNC locked).





Configuration:

- JMP1 and JMP2 on emulator board must be both open to allow configuration mode and SYNC update. Two alignment methods possible -
- Method 1: launch configurator software (same as for Ford type 1), enter SYNC, press "Proceed". You will see 2 CAN messages on screen. If MBcan is already attached messages are transmitted to CAN immediately. If success SYNC field goes green. Otherwise store SYNC into emulator using any suitable CAN logger by sending these 2 messages at 500 Kbaud, STD ID. Check response - must receive 7FF (8) with actually stored SYNC - it must match, in addition both RED and GREEN LEDs on emulator board must go on for 1 second.
- Method 2: set ECU for alignment using diagnostic tool. At next IGN_ON emulator will request SYNC directly from ECU – both RED and GREEN LEDs must go on if success.

Installation:

- Must attach four wires: CAN-Hi, CAN-Lo, GND (ground), +IGN (terminal "15"). You may install emulator anywhere close to HS-CAN network and necessary power wires - inside ECU, near OBD connector etc.
- If engine is authorized and car starts: switch everything off, place solder joint(s) on emulator board (short any or both JMP) to avoid any further updates by accident. Job done!

LED behaviour:

- **RED** and **GREEN** both must blink shortly at power-up, then -
- **RED** goes ON while ECU is authorizing, then according to authorization result -
  - **GREEN** goes ON for 1 second – **OK**, ECU is authorized,
  - **RED** remains ON for 1 second or more – **NOT OK** (possibly wrong SYNC code).
- If there is no **RED** and **GREEN** LED activity after power-up (except startup blink) - ECU is not communicating, no ECU request, no authorization necessary or something simply went wrong.

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