

Jaguar / RR Discovery 4 IMMO emulator

Range Rover Discovery 4 (L319) - LR4
 Range Rover Sport (L320 – 2010 up)
 Range Rover (L322: 2010 up, L405 up to 2014)
 Jaguar XF (X250), XJ (X351), XK (X150): 2008 ... 2015

Supported:

Designed for ECU authorization. Emulator is NOT Plug&Play, must store 8-byte SYNC before usage.

JMP1:

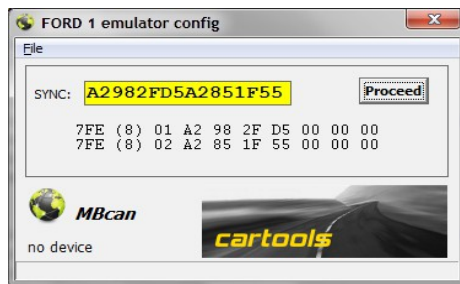
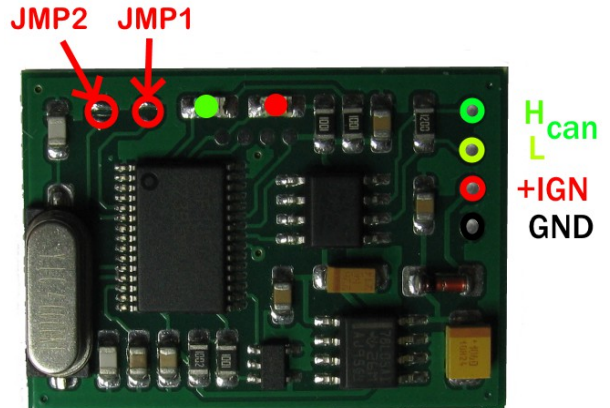
- **open** for CFG mode,
- **short** for normal mode (SYNC locked).

JMP2:

- **open** for all 2009 up,
- **short** for first years (2008...2009)

LEDs:

- **RED**: ecu is NOT authorized
- **GREEN**: ecu is authorized.



Configuration:

- JMP1 on emulator board must be open to allow configuration mode and SYNC update, set JMP2 according to specification,
- launch configurator software (same as for FORD Type-1 systems used), 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.
- Note that SYNC in ECU eeprom / d-flash is stored in reverse order.

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 and place solder joint(s) on emulator board to short JMP1 to avoid any 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** (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.