

# RR Discovery 3 IMMO emulator

## CAN HS 500kB, EXT ID

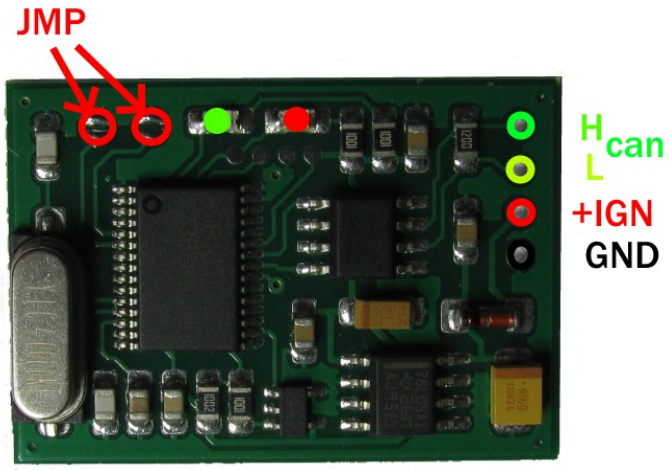
Range Rover Discovery 3 (L319) - LR3,
Range Rover Sport (L320)
**MY: 2004 – 2009 (2010)**

## Supported:

Designed for ECU authorization, RR Discovery3 (L319), RR Sport (L320). Emulator is NOT Plug & Play, must store 8-bytes of SYNC before usage.

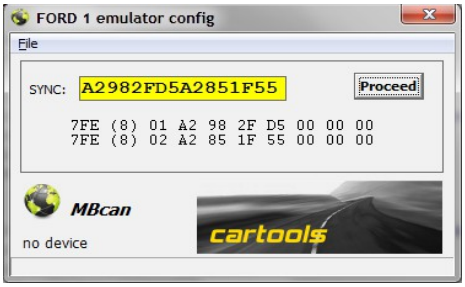
## JMP on emulator board:

- both **open**: CFG mode,
- any or both **shorted**: normal working mode.




## LEDs:

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




## Configuration:

- Both JMP on emulator board must be open to allow configuration mode and SYNC update,
- 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 - must match, in addition RED LED on emulator board must blink shortly.
- How to locate SYNC in ECU EEPROM: usually it is located between two 0x01 markers. For example - inside SID204 ECU SYNC is usually located at 0x027, 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 JMP (any or both, no matter!) to avoid any updates by accident. Job done!

## LED behaviour:

- **RED** and **GREEN** both must go ON shortly at power-up,
- **RED** must go ON if ECU request is received, remains ON for 1 second,
- **GREEN** goes ON if emulator response if correct - ECU is authorized, remains ON while ECU is sending confirmation,
- if **RED** and **GREEN** both go OFF (after power-up) - ECU is not communicating, no ECU request, no authorization necessary or something simply went wrong.

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