



Mitsubishi COLT, SMART forfour (W454) immo emulator

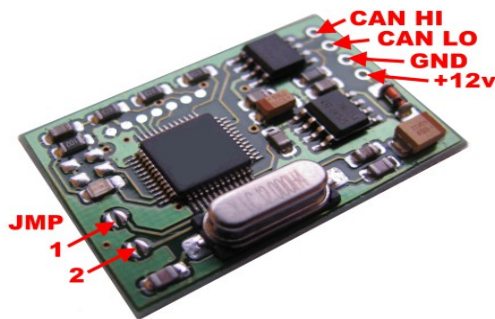
ETACS, CAN, 500kB

Description :

Device emulates immobilizer unit (integrated in ETACS) installed on Mitsubishi COLT / SMART forfour cars. Covers COLT (2002 and up), SMART W454 (2004...2006). emulator is not plug & play, must be personalized (aligned) to car ECU.

Installation:

Connect device directly to CAN, attach ground wire and power supply (terminal "15", hot when ignition switched on).



Jumpers (JMP):

- **both open:** configuration mode, it is possible to read or store SYNC into emulator using CAN logger or MBcan;
- **any or both shorted:** normal working mode, SYNC update is not allowed.

Alignment:

Read SYNC from ECU (7 bytes + checksum = 8 bytes overall), store it into emulator using CAN logger or MBcan device. Short any or both jumpers. Done.

With CAN logger:

- emulator must be in configuration mode (JMP 1 and JMP 2 both open), CAN speed must be set to 500kB.
- request actually stored SYNC - send **7FE 8 FF FF FF FF FF FF FF FF**, emulator must respond with frame **7FF 8 xx xx xx xx xx xx xx CS**, where xx is actual SYNC and CS is valid checksum.
- store SYNC into emulator - **7FE 8 xx xx xx xx xx xx xx CS**, emulator must respond as previously, with 7 bytes actual SYNC: **7FF 8 xx xx xx xx xx xx xx CS** - response must match the request. If it doesn't match - SYNC is not stored correctly, must repeat procedure.

With MBcan adapter:



Read or Write emulator: if success background will change color to green. If no success it goes red (must repeat procedure or verify jumper settings). Emulator must be in configuration mode (both jumpers open). Checksum is calculated in background, nothing to worry about

In addition it is possible to load SYNC directly from ECU dump (MBcan must be attached to PC!).

LED on emulator board:

- 1 short blink at startup,
- 8 short blinks: ERROR, ECU not authorized (possibly wrong SYNC),
- 1 long blink (>1sec): OK, ECU is authorized.

