Subaru immo emulator

2x K-line, IMB521 system

Description :

Device emulates Subaru 2x K-line immobilizer unit , IMB-521 system actual for model years from early 2000's up to 2010. Acts as original immobilizer, alignment with official diagnostic tools possible. It is possible to store 5 bytes of SK directly into emulator using K-line adapter.

Installation on car:

- Connect power supply (terminal "15" or +12 through ECU main relay), ground connection and IMMO line. There are two ECU – IMMO lines on these cars. You can use any of them, unused one leave unconnected because ECU checks for short circuit between them.
- JUMPER (solder joint) must be open for alignment.
- Using suitable diagnostic tool perform KEY REGISTRATION procedure (X431 – "all keys lost").
- Emulator is ready to start car now. You can short JUMPER using solder joint to avoid further updates (not mandatory).

Alignment using K-line adapter :

- JUMPER must be open. Attach K-line adapter and power supply, launch configurator utility.
- You can load ECU or IMMO dump or enter SK manually.
- Press WRITE. Observe LED on emulator board, 3x short blinks mean SK is successfully stored.
- Install emulator on car, place solder joint to short JUMPER if necessary.

LED on emulator board:

- 1x short blink at startup,
- 8x short blinks: ECU authorization fail (possibly wrong SK),
- 1x long blink: ECU authorization OK.

Connection example:

Pin meanings are marked on opposite side of emulator board.

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