# TOYOTA
# SCL emulator , LIN

**for TOYOTA / SUBARU, 2-byte system.**

**Description :**

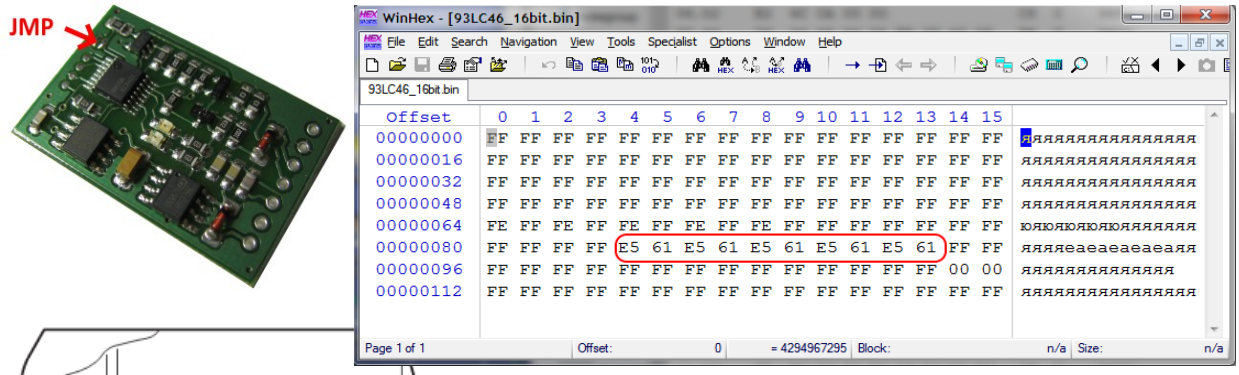
Plug & Play for most systems, although manual alignment may be necessary (using any LIN logger in master mode). Coverage: 2008 and up, SCL with 7 pin connector, TOYOTA 2-byte system.

**Installation on car:**

Pinout is 1:1 and match original SCL pinout, although not a simple task to use original connector because it is very specific and designed specially for SCL. You can use standard pin header with 2.54mm pitch and slightly bend pins to match SCL plug.

First launch: if engine runs everything is OK, correct code is calculated and stored into emulator. Switch ignition off, wait until LIN sleeps (status LEDs both must go off), place solder joint (JMP) to disable further SYNC updates.

If starter is ON but no engine start allowed must store SYNC manually using any LIN logger in master mode. Communication parameters: 9600baud, checksum = classic. JMP must be open. For connection "on table" must connect **+12v** to pin 7, **GND** to pin 2, **LIN** to pin5. LIN frame looks like : BF (8) DA BD AB 00 xx xx yy yy where xx xx is a SYNC, yy yy is inverted SYNC (XOR 0xFFFF). Example: SYNC from SCL dump: 61E5, frame is BF (8) DA BD AB 00 61 E5 9E 1A. If SYNC stored, both LEDs must go on for ½ second. **Don't forget to place solder joint (JMP) to disable SYNC updates!**




Pin 1: chassis **GND**

pin 2: signal **GND**

pin 3: **SLR**

pin 4: **SLP**

pin 5: **LIN**

pin 6: **IGN**

pin 7: **+BAT**

**LED on emulator board:**

- YELLOW or RED: SCL is in **LOCKED** state, **LIN** active
- GREEN: SCL is in **UNLOCKED** state, **LIN** active
- If there is activity on **LIN** (car enters sleep mode), both LEDs go off.
- Both LEDs ON: **SYNC** stored (acknowledge, config mode only – JMP open).



cartools