

VOLVO ESL/ELV/SCL

S.O.S Car Simulator instruction manual

ESL/ELV REPLACEMENT PROGRAM

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● Program introduction



Example cars

SCL 1

V40

SCL 2

S40

C70

C30

V50

SCL 3

S90

V90

XC90

XC40

SCL 4

S60

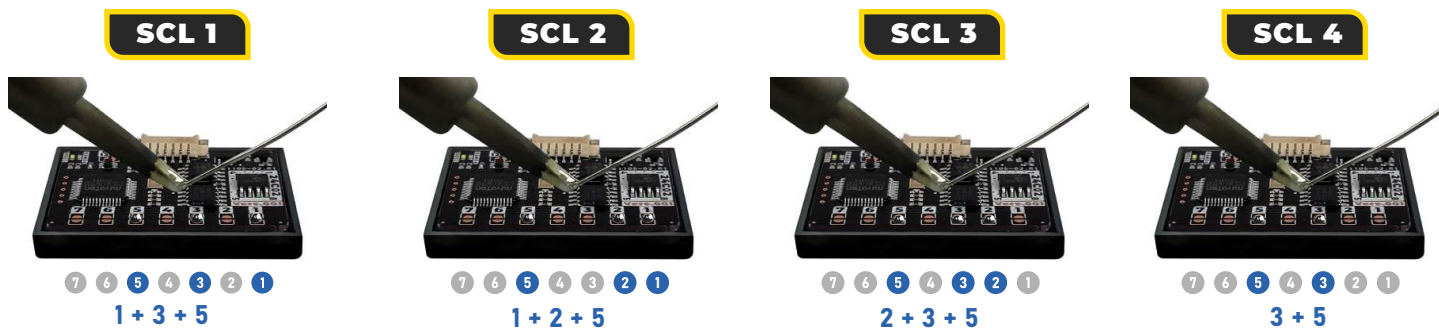
S80

XC60

XC70

●●● Jumpers to solder

Choose the S.O.S program by soldering the following jumpers depending on your car brand:



To choose the program you have to solder specific jumpers on the back of the Emulator:

Attention!

Always pul the Emulator back into the plastic cover before attaching it to the ECU board.

Attaching the Emulator to the ECU board without the plastic cover may resul! in damaging the ECU or the Emulator!

SCL

VOLVO V40

The emulator is an easy fix to a very common issue with Steering Column Lock (SCL). it works by replacing an original ESL signal. in case of a locked SCL, it is required to physically remove it from the vehicle. The emulator will simulate the electronic signal of SCL, enabling the car to start.



When the steering lock gets damaged, an SCL error shows up on the dashboard and the car won't start.



The emulator works only with **VOLVO SMART REMOTE** key.



VOLVO SMART REMOTE KEY is not supported!

Connect the device directly to the plug leading to SCL (in the place of the damaged lock) and start the car. No adaptation required!



Program Usage

The emulator can be used with VOLVO vehicles equipped with a 4-pin ESL plug (only 3 pins out of 4 are inserted)



Example cars

VOLVO

V40



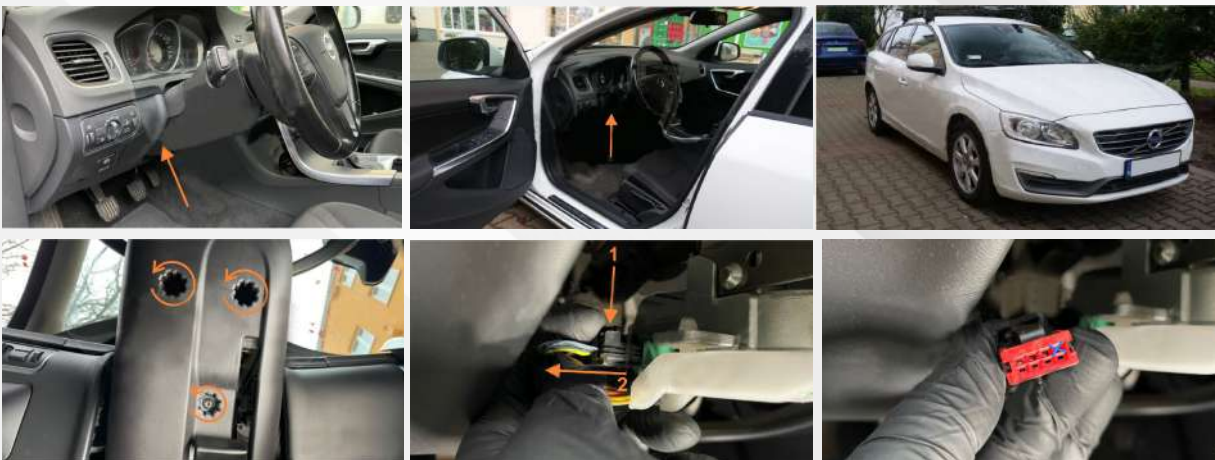
7 6 5 4 3 2 1



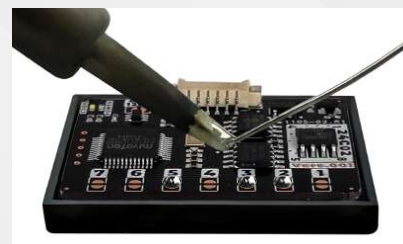


**S
C
L
I**

VOLVO V40

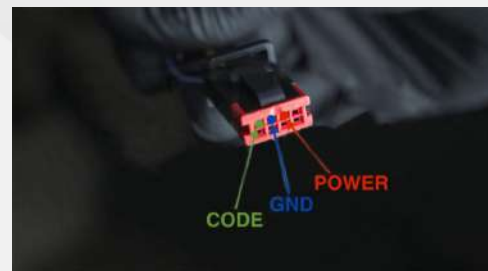


1 To choose the program you have to solder specific jumpers on the back of the Emulator:
1 + 3 + 5



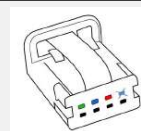
7 6 5 4 3 2 1

Connect the emulator to the ESL plug according to the picture on the right.



Attention!

The emulator can be used with VOLVO vehicles equipped with a 4-pin ESL plug (only 3 pins out of 4 are inserted)



2 The original ESL needs to be removed from the car.

● VOLVO S40 / C70 / C30 / V50

Attention!

While using the S.O.S S40 emulator, the original steering wheel lock of your vehicle must be working.

If the car's original steering lock is not working, you cannot use the emulator.



The emulator works only with **VOLVO REMOTE** key with plastic blade.



VOLVO SMART REMOTE KEY is not supported



Program Usage

The Emulator can be used with VOLVO vehicles equipped with a 4-pin SCL plug



Example cars

VOLVO

- C30
- S40
- V50
- C70



**S
C
L
2**

●●● **Jumpers to solder**

” Mode to program original steering wheel unlock and emulator together
1 + 2 + 5



7 6 5 4 3 2 1

” Connect the Emulator wires

” With the original steering lock socket plugged in, connect the green cable of the emulator to the data cable of the steering lock.



POWER +12V
GROUND
CODE

Pin 16 of OBD2 socket”

Pin 4 or 5 of OBD2 socket”

Pin 4 back of the SCL Plug”



- ”
- steering lock cable shown in the picture, connect +12 and GND from the vehicle's diagnostic socket, insert the key into the socket, the emulator's code led flashes, the programming is successful.
 - Turn the ignition OFF and disconnect the Emulator wires from the OBD2 socket and from SCL plug

**S
C
L
2**

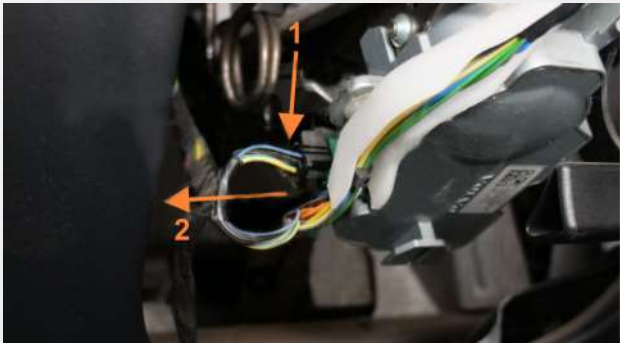
●●● **Jumpers to solder**

” please open the number 1 jumper on the emulator

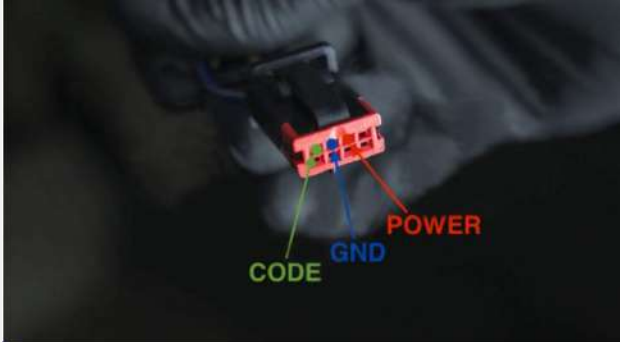


7 6 5 4 3 2 1

” Disconnect SCL Plug from the SCL module



” Connect the Emulator to the SCL plug according to the picture on the right.



Attention!

The emulator can be used with VOLVO vehicles equipped with a 4-pin ESL plug (only 3 pins out of 4 are inserted)



” The original ESL needs to be removed from the car.

SCL3

VOLVO S90 / V90 / XC90 / C40

Program Usage

The Emulator can be used with VOLVO vehicles equipped with a 4-pin SCL plug

Example cars

VOLVO

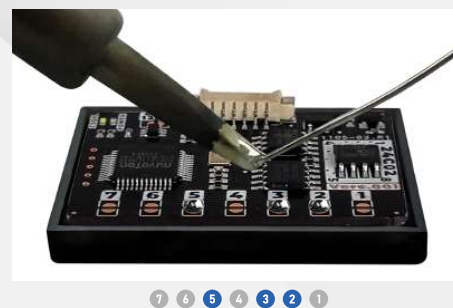
- S90
- V90
- XC90

PROCEDURE:



Jumpers to solder

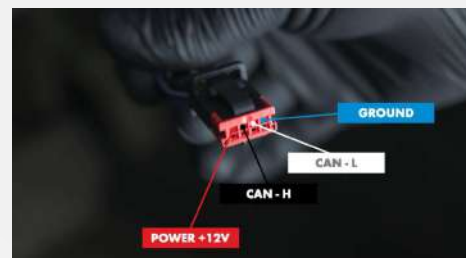
- 1 Select the S.O.S program by soldering the jumpers on the right: **2 + 3 + 5**



- 2 Connect the Emulator to the SCL plug according to the pictures on the right.



GROUND	Pin 1
CAN-L	Pin 2
CAN-H	Pin 3
POWER +12V	Pin 5



- 3 The original ESL needs to be removed from the car.

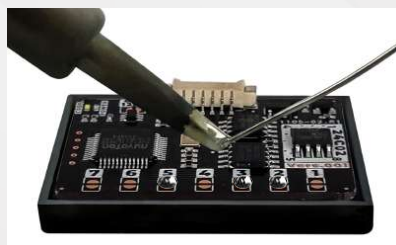
S
C
L
4

● Volvo S60 / S80 / XC60 / XC70

Disconnect plug from the SCL and remove the damaged SCL module from the car

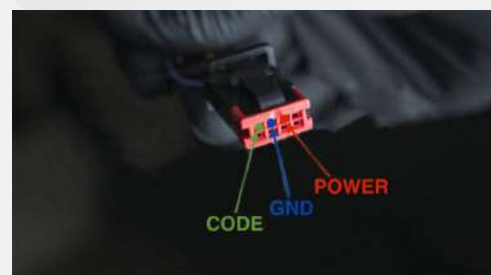


1 ” To choose the program you have to solder specific jumpers on the back of the Emulator:
3 + 5



7 6 5 4 3 2 1

! Connect the emulator to the ESL plug according to the picture on the right.



Attention! The emulator can be used with VOLVO vehicles equipped with a 4-pin ESL plug {only 3 pins out of 4 are inserted}



2 ” The original ESL needs to be removed from the car.