MERCEDES ESL

Julie™ Car Emulator instruction manual
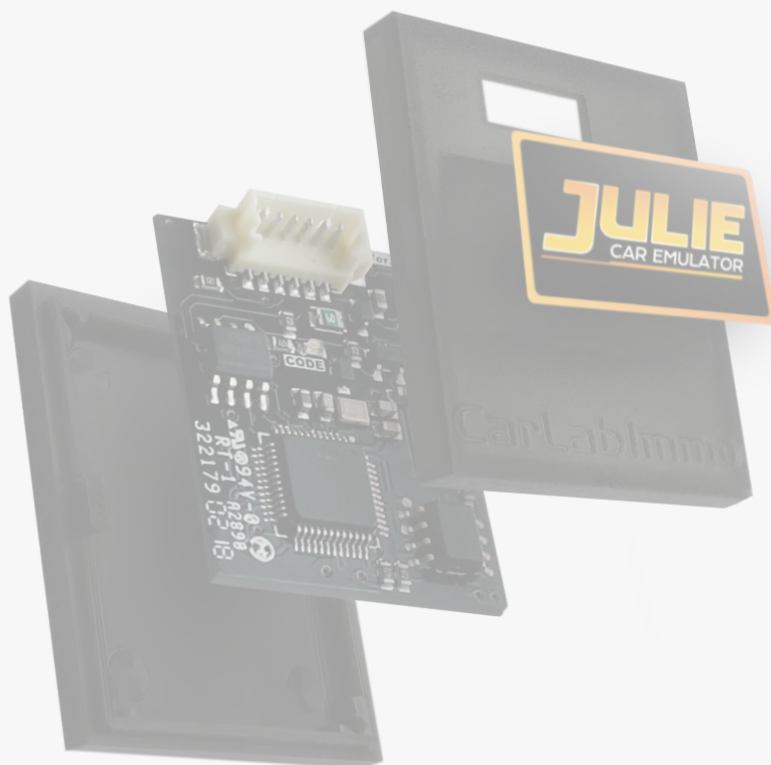
ESL/ELV REPLACING PROGRAM

Table of contents

*Solution for Volkswagen Crafter requires Julie version 105 or later

● Program introduction

🚗 Example cars

Mercedes with ESL / ELV
C-class - W203
C-class - W202
CLK - W209
CLK - W208
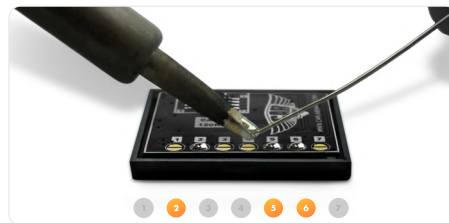E-class - W211
E-class - W210
Sprinter II W906
Vito W639

Volkswagen with ESL / ELV
Crafter*

*Solution for Volkswagen Crafter requires Julie version 105 or later

⚬ ⚬ ⚬ Jumpers to solder

Choose the Julie™ 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:
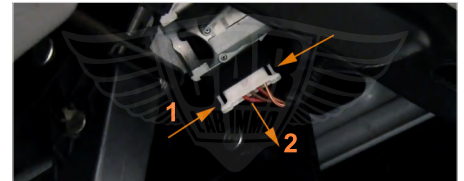**2 + 5 + 6**

Mercedes Sprinter II W906 (up to 2010) / VW Crafter*

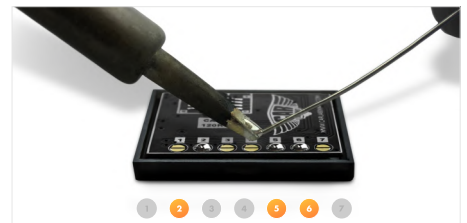*Solution for Volkswagen Crafter requires Julie version 105 or later

MERCEDES ESL & EZS
Mercedes Sprinter W906 / Volskwagen Crafter

ESL   **EZS**

- **GROUND** ESL - 3 pin   EZS - D/7 pin
- **POWER** ESL - 2 and 4 pin   EZS - A/1 pin D/8 pin
- **CODE** ESL - 5 pin   EZS - A/5 pin
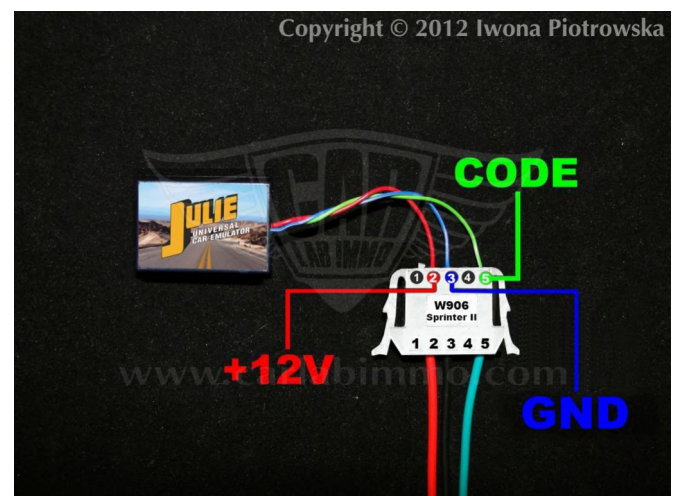
1

Disconnect plug from ESL

2

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

2 + 5 + 6

3

Connect Julie to the ESL's plug according to the picture on the right.

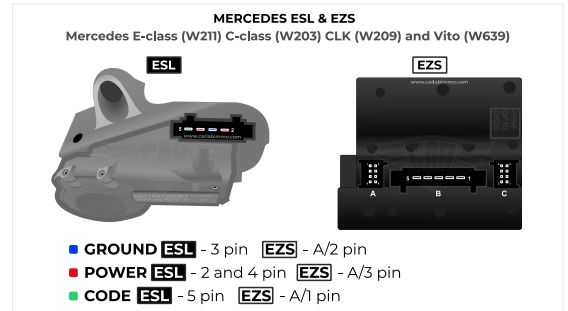Copyright © 2012 Iwona Piotrowska

4

Check the Julie's™ LED behaviour
If the procedure is succesfuly completed the
blue LED lights constantly and blinks once every two seconds!

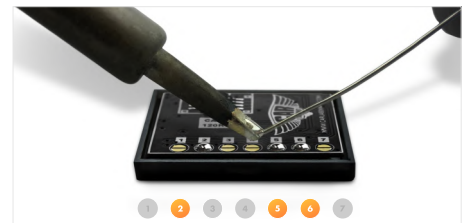End of the procedure

Vito W639 / W211 / W209 / W203

MERCEDES ESL & EZS
Mercedes E-class (W211) C-class (W203) CLK (W209) and Vito (W639)

ESL

EZS

www.carlabimmo.com

- GROUND **ESL** - 3 pin **EZS** - A/2 pin
- POWER **ESL** - 2 and 4 pin **EZS** - A/3 pin
- CODE **ESL** - 5 pin **EZS** - A/1 pin

1
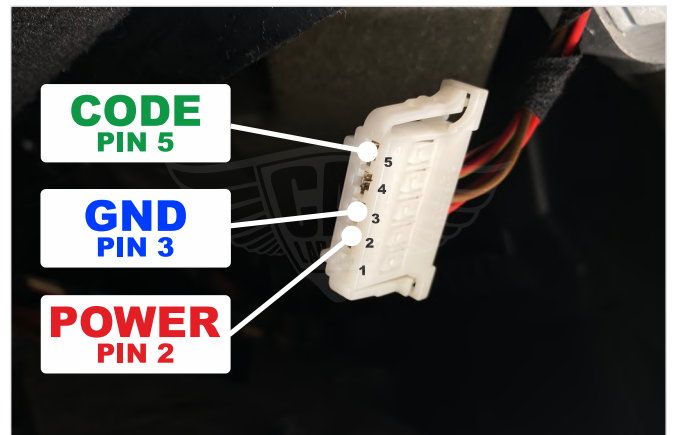
Disconnect plug from ESL

2

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

2 + 5 + 6

3

Connect Julie to the ESL's plug according to the picture on the right.
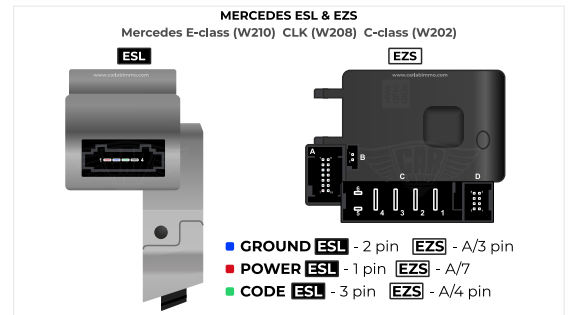
CODE
PIN 5

GND
PIN 3

POWER
PIN 2

4

Check the Julie's™ LED behaviour
If the procedure is succesfuly completed the
blue LED lights constantly and blinks once every two seconds!
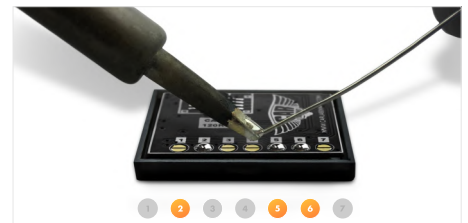
End of the procedure

W210 / W208 / W202

MERCEDES ESL & EZS
Mercedes E-class (W210) CLK (W208) C-class (W202)

- **GROUND** ESL - 2 pin   EZS - A/3 pin
- **POWER** ESL - 1 pin   EZS - A/7
- **CODE** ESL - 3 pin   EZS - A/4 pin

1
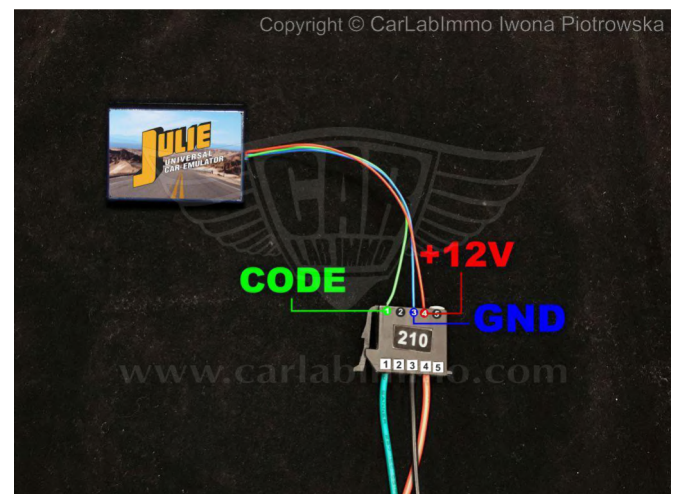
Disconnect plug from ESL

2

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

2 + 5 + 6

3

Connect Julie to the ESL's plug according to the picture on the right.

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4

Check the Julie's™ LED behaviour
If the procedure is succesfuly completed the
blue LED lights constantly and blinks once every two seconds!

End of the procedure
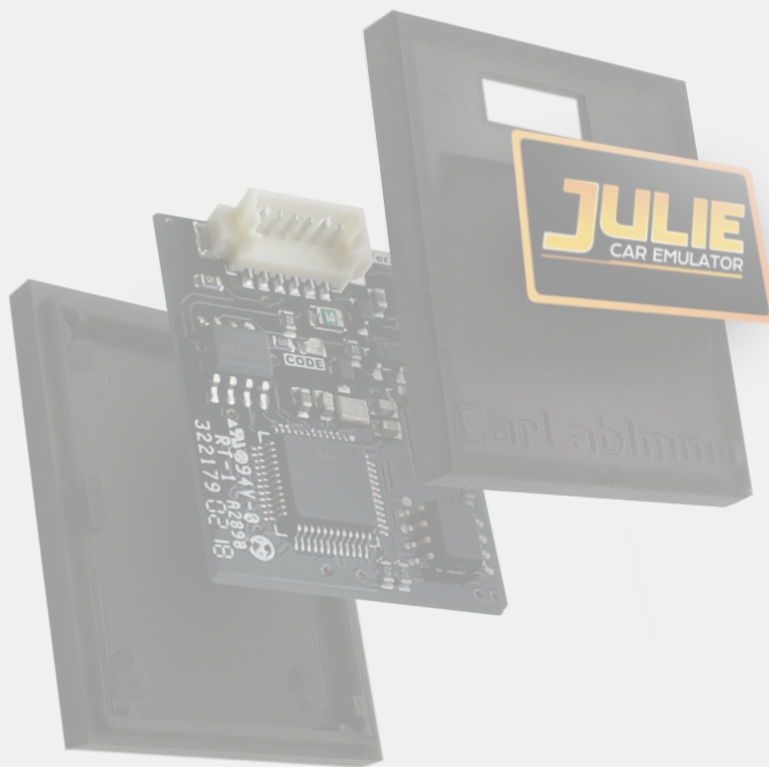
VOLVO ESL

Julie™ Car Emulator instruction manual

Instruction manual

ESL (SCL) REPLACING PROGRAM

## ☰ Table of contents

● Program introduction

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.
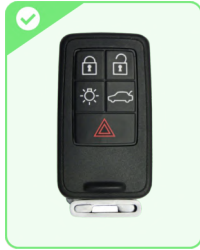
The emulator works only with
VOLVO **SMART** REMOTE key.
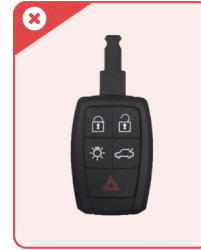
VOLVO KEY REMOTE
is not supported!

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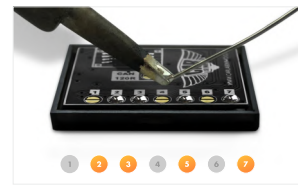

ⓘ Program usage

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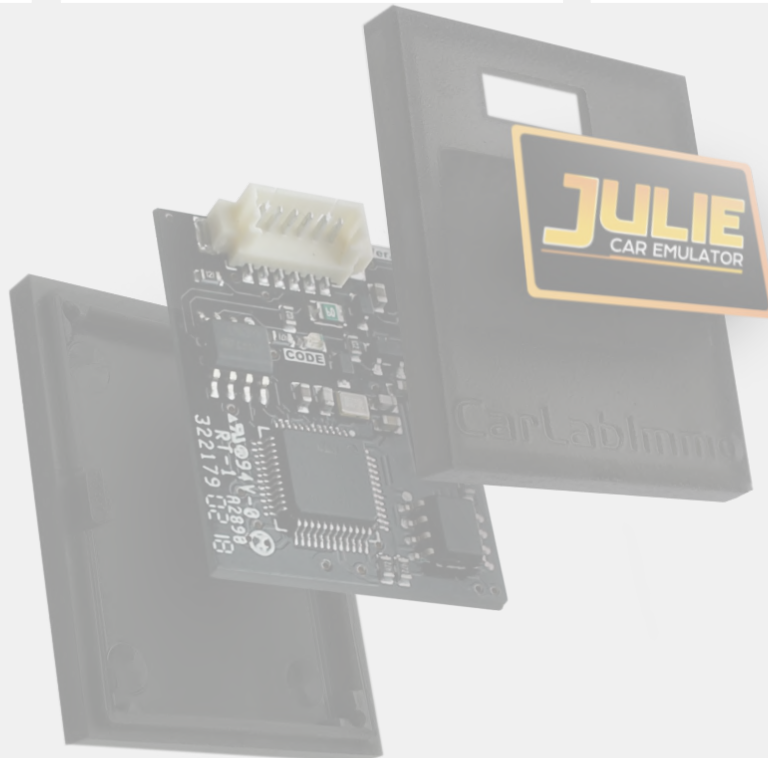
🚗 Example cars

VOLVO

S40/V40
S60/V60
S80
XC60
XC70

⚬ ⚬ ⚬ Jumpers to solder

2 + 3 + 5 + 7

VOLVO ESL

This procedure for Julie Emulator works in the same way as Clixe Volvo ESL, with one exception - Julie is NOT equipped with a dedicated plug. Instead, the procedure requires soldering the wires into the original ESL plug.
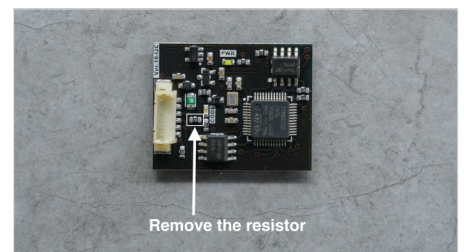
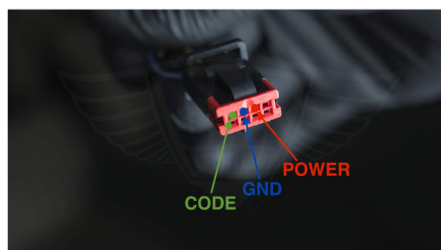**1** Disconnect plug from the SCL and remove the damaged SCL module from the car

TORX T25

2 Choose the Julie program by soldering the following jumpers:

1 2 3 4 5 6 7

2 + 3 + 5 + 7
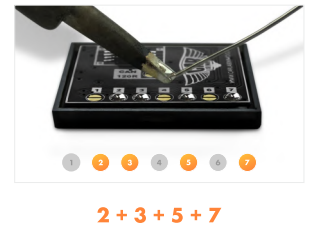
3 Remove the resistor marked on the picture
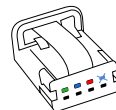

Remove the resistor

4 Connect the Emulator to the ESL plug according to the pictures on the right.
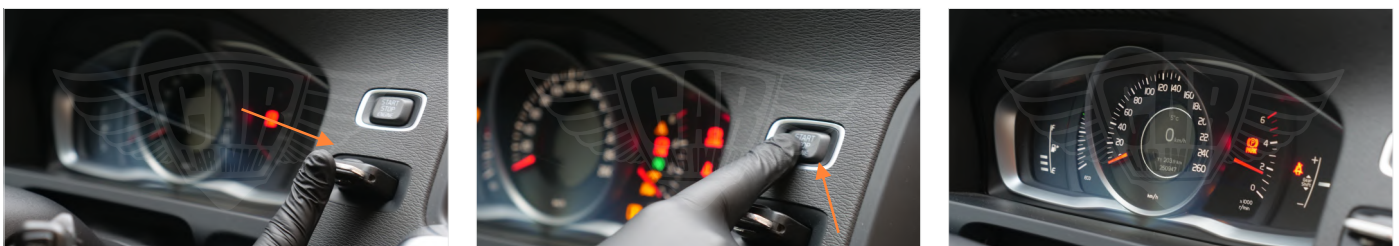

CODE
GND
POWER

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

5 Start the car.

End of the procedure

BMW ESL

Julie™ Car Emulator instruction manual

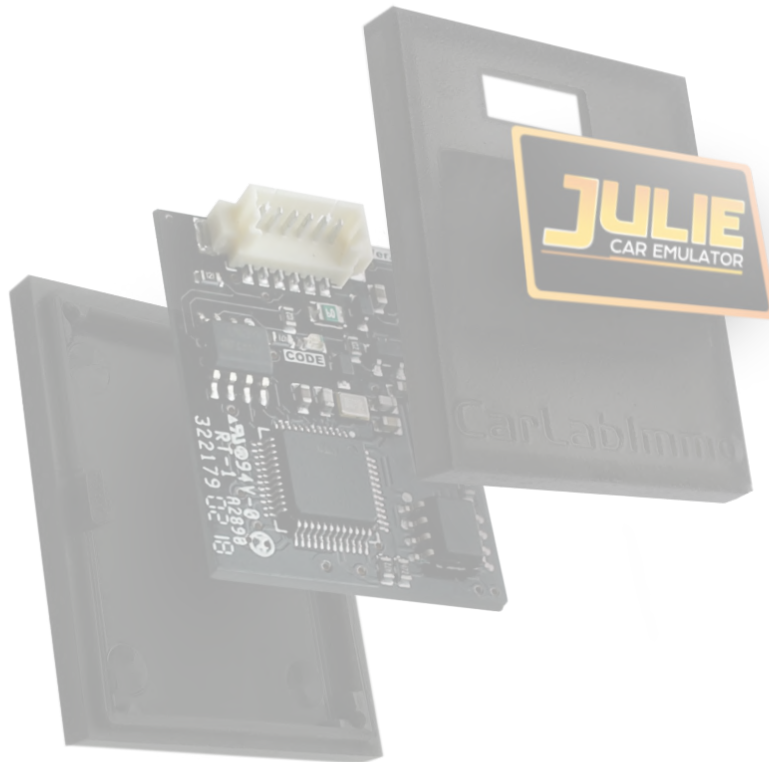ESL/ELV REPLACING PROGRAM

☰ **Table of contents**

VERSION	PHOTO	PINOUT
109	📷	⌨

Program introduction

The emulator replaces the **Electronic Steering Lock (ESL)** signal.
Symptoms of a malfunctioning or damaged ESL:
- The car doesn't start
- The car doesn't react to the start&stop button
- ESL warning light icon (red or yellow) lights up on the dashboard

For the emulator to start, it needs to be connected to the car's wiring after disconnecting it from a damaged ESL.
The original ESL needs to be removed from the car.

It is necessary to reset the fault counter in the CAS module.

ⓘ Program usage

The emulator can be used with
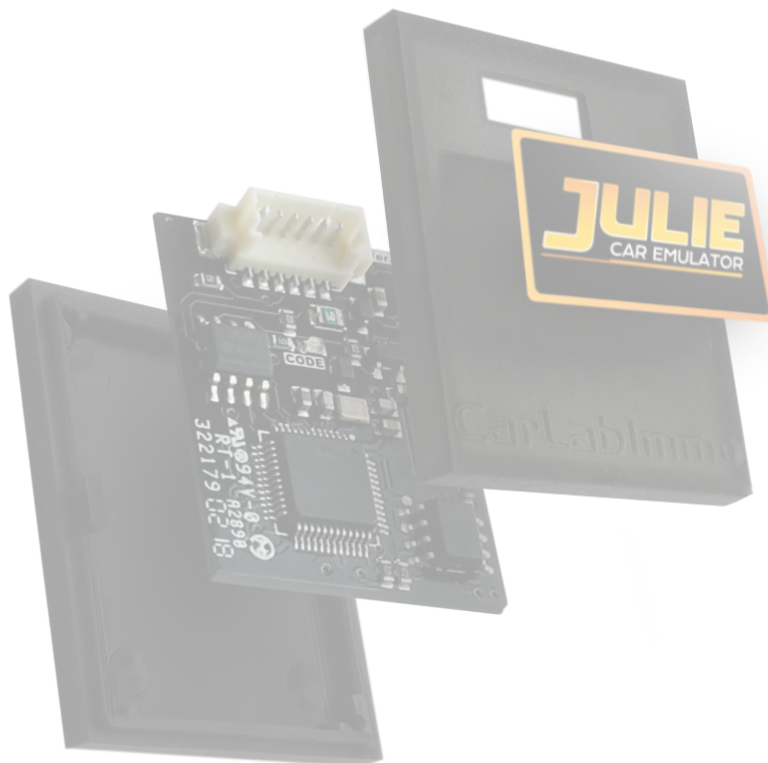BMW / MINI vehicles equipped
with a 3 or 4-pin ESL plug

Example cars

BMW

Series 1
E81, E82, E87, E88
Series 3
E90, E91, E92, E93
Series 5
E60, E61
Series 6
E63, E64

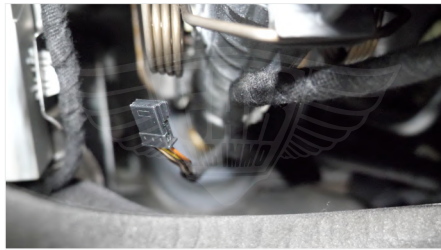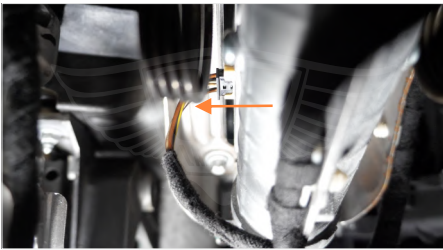**MINI**

R55
R56

● BMW ESL

BMW
Series 1
E81, E82, E87, E88
Series 3
E90, E91, E92, E93
Series 5
E60, E61
Series 6
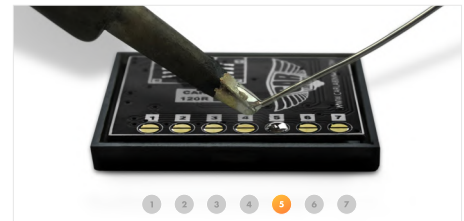E63, E64

MINI
R55
R56

1

Disconnect plug from the ESL and remove the ESL module from the car

2

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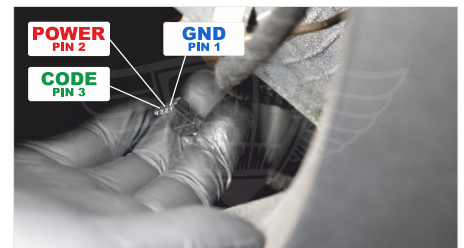jumpers on the back of the Emulator:

5

3

Connect the Emulator to the ESL plug according the diagram on the right

i **Attention!**

It is necessary to reset the fault counter in the CAS module.

POWER
PIN 2

GND
PIN 1

CODE
PIN 3

4

Start the car.

End of the procedure

RENAULT ESL

Julie™ Car Emulator instruction manual

ESL/ELV REPLACING PROGRAM

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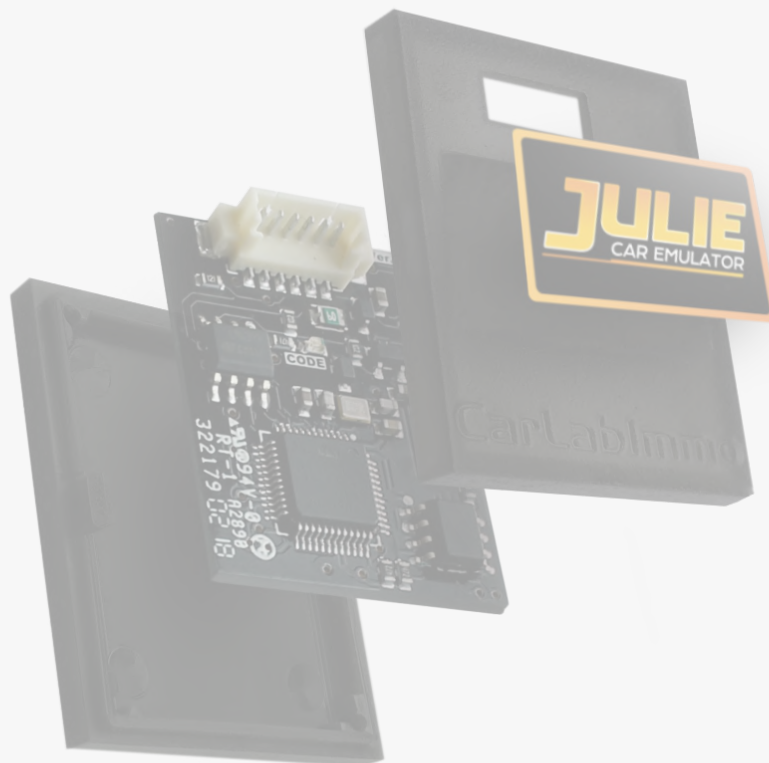
● Program introduction

🚗 Example cars

Renault

Captur	Megane II
Clio III	Megane II (lift 2004-2006)
Clio IV	Megane III
Espace IV	Scenic II
Espace IV (phase II)	Scenic III
Espace IV (phase III)	Talisman
Fluence	
Laguna II	
Laguna II (lift 2004-2006)	
Laguna III	

⊕ ⊕ ⊕ Jumpers to solder

To choose the program you have to solder specific jumpers on the back of the Emulator:
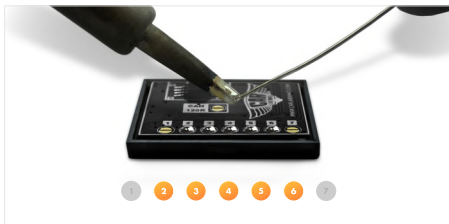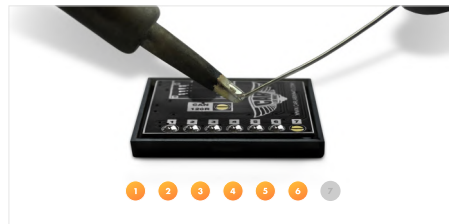
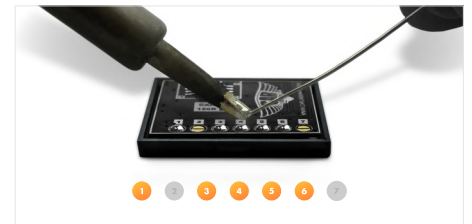| ESL 1	ESL 2	ESL 3
2 + 3 + 4 + 5 + 6	**1 + 2 + 3 + 4 + 5 + 6**	**1 + 3 + 4 + 5 + 6**

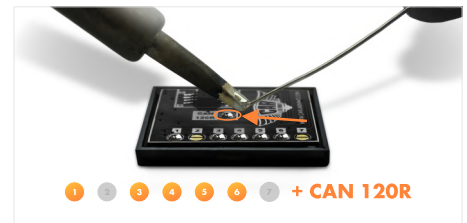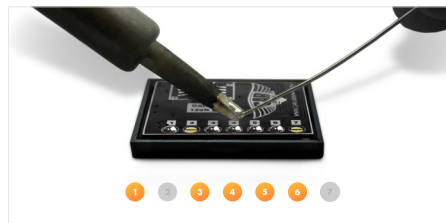If the Emulator doesn't work, solder an additional jumper CAN 120R

Renault ESL 3

Renault Laguna II (lift 2004-2006)
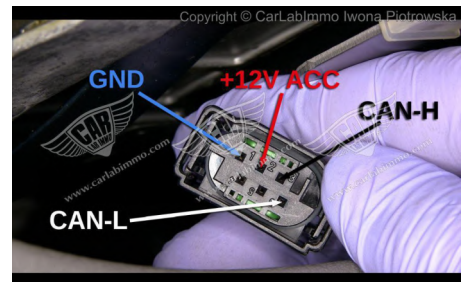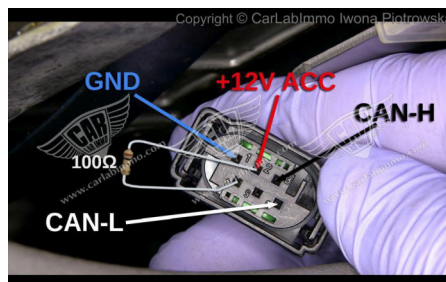Renault Megane II (lift 2004-2006)
Renault Espace IV (2004-2006)

1 Disconnect plug from ESL

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

1 + 3 + 4 + 5 + 6

① ② ③ ④ ⑤ ⑥ ⑦   ① ② ③ ④ ⑤ ⑥ ⑦ **+ CAN 120R**

3 Connect Julie to the ESL's plug according to the picture on the right.

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GND   +12V ACC   CAN-H   100Ω   CAN-L

i Attention!

- If the Emulator doesn't work, solder an additional jumper CAN 120R
- If SERVICE warning appears on the dashboard, take out the 100Ω resistor between pins 2 and 4 of the emulator's plug

4 Start the car.

5

Check the Julie's™ LED behaviour
If the procedure is succesfuly completed the
blue LED lights constantly and blinks once every two seconds!
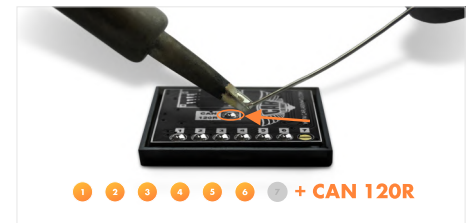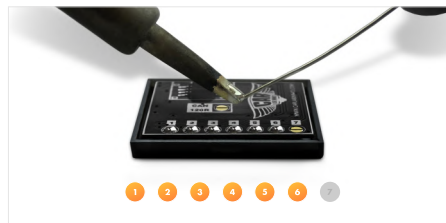
End of the procedure

Renault ESL 2

Supported cars

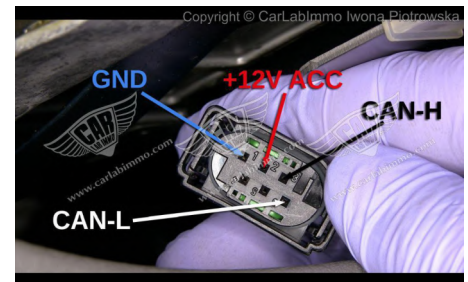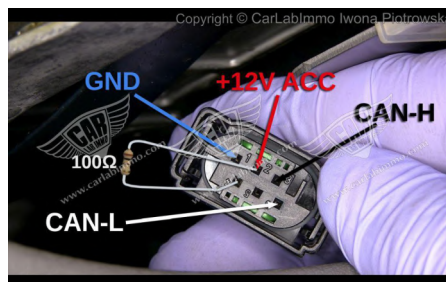|	
Renault Talisman	Renault Laguna III
Renault Captur	Renault Espace IV (phase III)
Renault Clio IV	
Renault Megane III	
Renault Scenic III	
Renault Fluence	

1

Disconnect plug from ESL

2

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

1 + 2 + 3 + 4 + 5 + 6

1 2 3 4 5 6 7   1 2 3 4 5 6 7 **+ CAN 120R**

3

Connect Julie to the ESL's plug according to the picture on the right.

i **Attention!**

- If the Emulator doesn't work, solder an additional jumper CAN 120R

- If SERVICE warning appears on the dashboard, take out the 100Ω resistor between pins 2 and 4 of the emulator's plug

4

Start the car.

5

Check the Julie's™ LED behaviour
If the procedure is succesfuly completed the
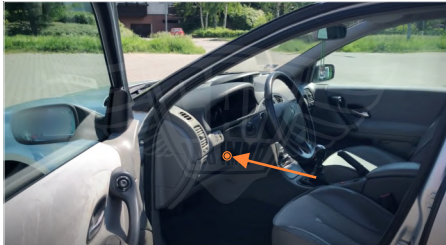blue LED lights constantly and blinks once every two seconds!
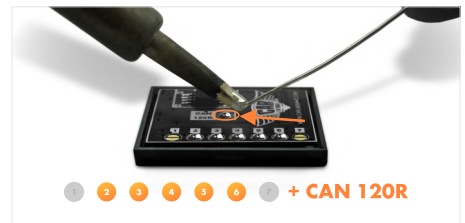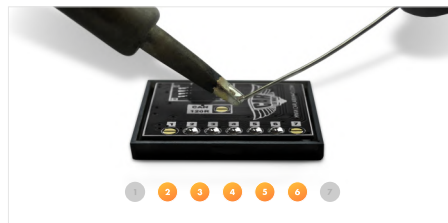
End of the procedure

Renault ESL 1

Renault Megane II
Renault Laguna II
Renault Scenic II
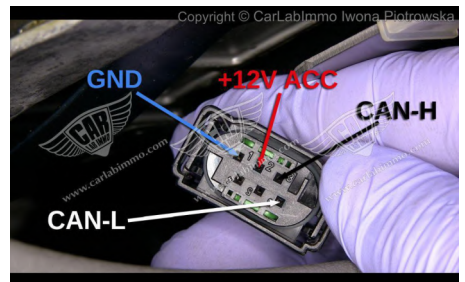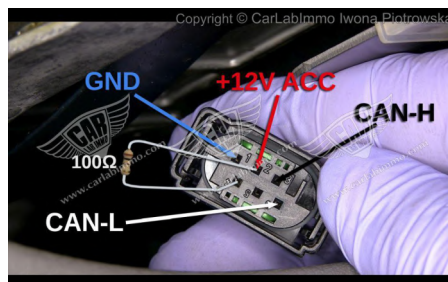Renault Clio III
Renault Espace IV (phase II)

1
Disconnect plug from ESL

2
To choose the program you have to solder specific
jumpers on the back of the Emulator:
2 + 3 + 4 + 5 + 6

① ② ③ ④ ⑤ ⑥ ⑦   ① ② ③ ④ ⑤ ⑥ ⑦ **+ CAN 120R**

3
Connect Julie to the ESL's plug
according to the picture on the right.

Copyright © CarLabImmo Iwona Piotrowska

i Attention!

- If the Emulator doesn't work, solder an additional jumper CAN 120R

- If SERVICE warning appears on the dashboard, take out the 100Ω resistor between pins
  2 and 4 of the emulator's plug

4
Start the car.

5

Check the Julie's™ LED behaviour
If the procedure is succesfuly completed the
blue LED lights constantly and blinks once every two seconds!

End of the procedure