Julie
Universal Emulator

There are many cars
but emulator is only one!

No car will ever surprise you!
You will no longer need to refer your customers to other workshops.
You have the choice of 68 programs.

You can use this emulator unlimited number of times for both
testing purposes or it can be left in a car permanently.
Program selection is effected by soldering jumpers from J1 to J7.
To connect the emulator, please refer to specific installation manual.

Julie - Universal Emulator Programs:

You can buy our products and obtain technical support from our distributor. Find a distributor near you by clicking on the link: *www.carlabimmo.com/our-partners*

Seat occupancy sensor programs

Tachometer tester programs

Universal Julie emulator includes

42 immo programs

18 seat occupancy sensor programs

8 tachometer tester programs

- no jumpers – diagnostic mode - it flashes every second

- VW Automatic, EDC15, EDC16 and ME7 if used before – does not flash

- adjusting to the ECU – flashing 0,1 sec

- after adjusting it lights constantly and blinks every other second

www.carlabimmo.com

VW automatic immo OFF (single use)

**In Universal Julie Emulator
solder jumpers J5 and J6**

Available as Universal Julie Emulator
program no. 1
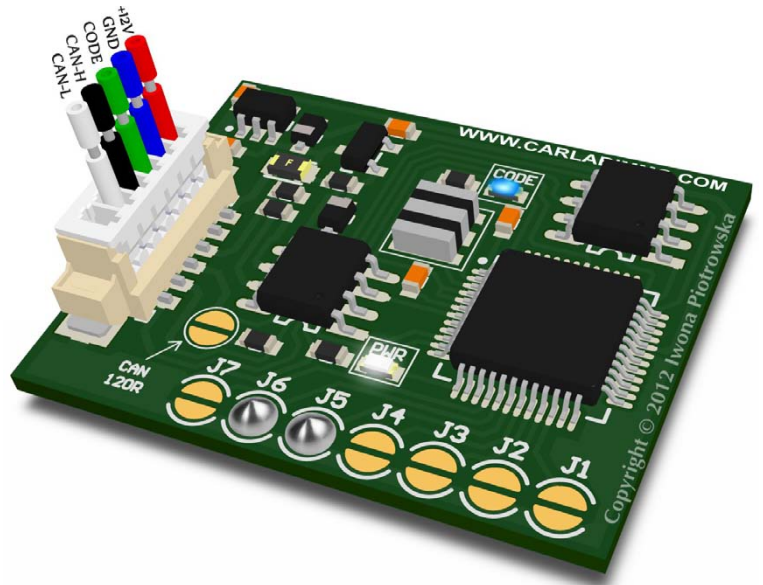
VW automatic immo ON (single use)

**In Universal Julie Emulator
solder jumpers J1, J5 and J6**

Available as Universal Julie
Emulator program no. 2
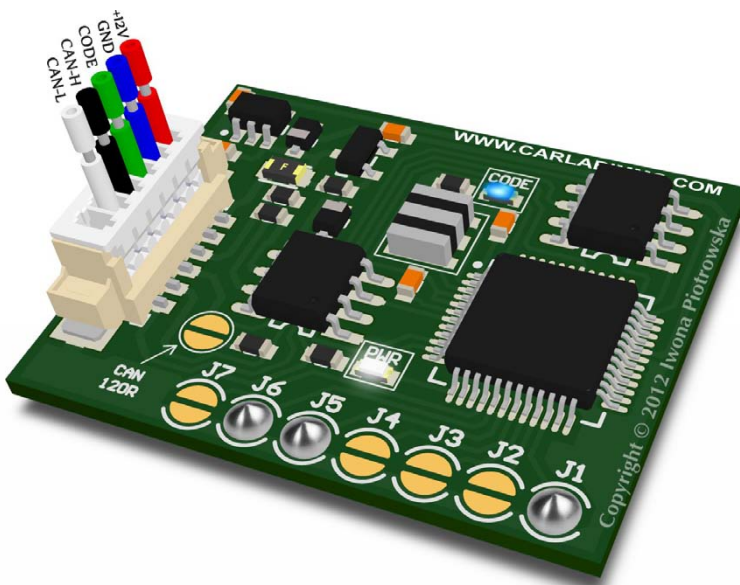
**VW automatic immo OFF or ON programs
are single use and can only be used in one car!**

You can buy our products and obtain technical support from our distributor. Find a
distributor near you by clicking on the link: *www.carlabimmo.com/our-partners*

USE

TDI EDC16 CAN + K-line
TDI EDC15
Gasoline Bosch ME7

Tested on the following electronic control units:

TDI EDC16 CAN + K-line

0 281 011 145 VV Passat B5 2.0 TDI, 2006 - mechanical ignition switch
0 281 011 258 VW Touareg 2.5 TDI, 2003 - 2010
0 281 011 364 Audi A3 1.9 TDI, 2004
0 281 011 383
0 281 011 385
0 281 011 568 VW T5 2.5 TDI, 2006 - 2007
0 281 011 843 VW Golf V 2.0 TDI, 2004
0 281 011 844 VWTouran 2.0 TDI, 2004
0 281 011 855 VW T5 1.9 TDI, 2003
0 281 011 856 VW T5 1.9 TDI, 2005
0 281 011 882 VW Caddy 1.9 TDI, 2006
0 281 011 883 Skoda Octavia 1.9 TDI, 2004 - 2010
0 281 011 900
0 281 011 945
0 281 011 946 VW Touran 1.9 TDI, 2006
0 281 011 907 VW Touran 2.0 TDI
0 281 012 220 VW Golf V 1.9 TDI, 2005
0 281 012 390 VW Caddy 1.9 TDI, 2003 - 2010
0 281 012 696 Seat Alhambra, VW Sharan 2.0 TDI, 2005 - 2010
0 281 012 698 Skoda Superb 2.0 TDI, 2006
0 281 012 762 VW T5 1.9 TDI, 2006r. - 2010
0 281 012 792
0 281 012 113 Audi A4 2.0 TDI, 2008
0 281 012 545 Audi 1.9 TDI, 2007
0 281 012 546 Audi 1.9 TDI, 2006
0 281 012 654 Audi 2.0 TDI, 2005
0 281 012 270 Audi 3.0 TDI A6 Quattro
0 281 013 228 VW Jetta 2.0 TDI, 2007
0 281 013 299 Skoda Octavia 2.0 TDI, 2005 - 2011
0 281 013 302 VW Touareg 2.5 TDI, 2005 - 2010
0 281 013 311 VW Passat 2.0 TDI, 2005 - 2009
0 281 013 440 VW Passat CC 2.0 TDI, 2005 - 2009
0 281 013 606 VW Golf V 1.9 TDI, 2006
0 281 013 177 Audi A6 2.7 TDI, 2007

0 281 014 004
0 281 014 044 VW Touran 1.9 TDI, 2006 - 2010
0 281 014 049 VW T5 2.5 TDI, 2007
0 281 014 064 VW Golf 1.9 TDI, 2006 - 2008
0 281 014 128 VW Touran 1.9 TDI, 2006 – 2010
0 281 014 136 Skoda Octavia 1.9 TDI, 2006 - 2010
0 281 014 891 VW T5 2.5 TDI, 2009
0 281 014 384 Audi A6 2.7 TDI, 2007
0 281 015 175 VW Caddy 1.9 TDI, 2008

TDI EDC15

Capacity   1.2 1.4 1.9 2.5

From 2000 to 2004, some vehicles from 2006 to even 2008 (except Audi with coded pump)

Gasoline Bosch ME7

Capacity   1.4 1.8 2.0 2.4 2.6 2.8 3.0 3.5 4.2

0 261 201 144 VW Golf V 1.4 2002 - 2006
0 261 204 873 Audi A4/ VW Passat 1.8 1999
0 261 204 893 Audi A4 2.4 Quattro 2001
0 261 207 360 VW Bora 2.0 2000 - 2005
0 261 206 123 Passat 2.8 2000
0 261 206 019 Audi A8 4.2 2000
0 261 207 534 Seat Leon 1.8 20V 2002

16-pin OBD2 socket

1. Connect all the wires to the OBD2 socket

2. TURN IGNITION ON AND WAIT 20 SECONDS

3. When ignition is turned on, connect the emulator's plug to the emulator's PCB. Once connected, blue LED flashes fast and after several seconds the LED should emit a constant light and blink every other second

4. Turn ignition OFF and disconnect emulator

Programs no. 1 and 2 enable the emulator to automatically remove immo from a car by identifying ECU type and selecting a relevant program.

Attention! Selection of programs no.1 and 2 eliminates the possibility to use the remainder of the programs from 6 to 15.

VW without CAN

In Universal Julie Emulator solder jumper J1

Available as Universal Julie Emulator program no. 1
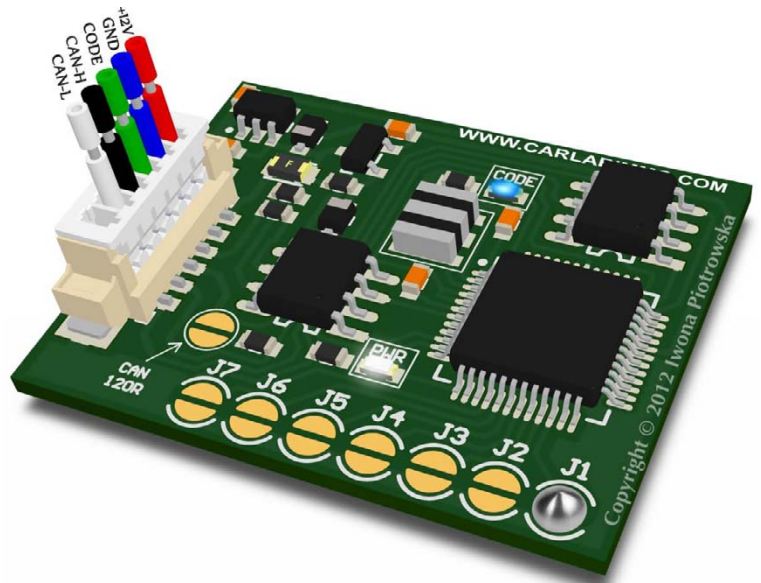
USE

W1 and W2 systems up to around 2001 EDC15 and 5-socket LT28/LT35 ECUs - when the chassis numbers are not entered - even up to 2006 diesel and gasoline Ford cars with VW systems (the VW symbol is visible on the ECU).

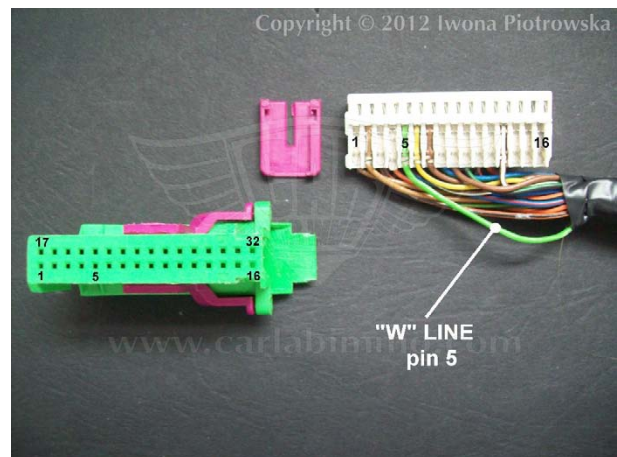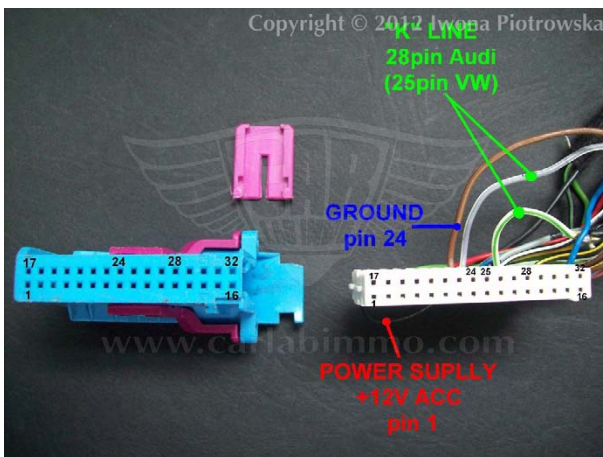Connecting in place of the original immobiliser or instrument cluster.

If you cannot start the car, you need to fit the emulator to ECU.

If the emulator is not working, then connect the power supply of the emulator to +12V through the reset button.

Disconnect immo and connect W line with K line to have a diagnosis.
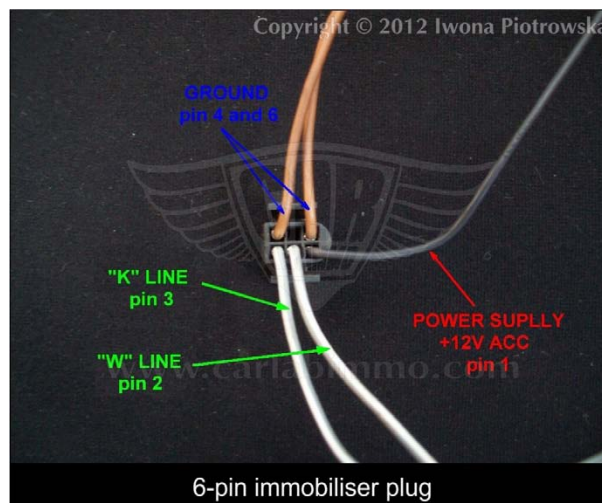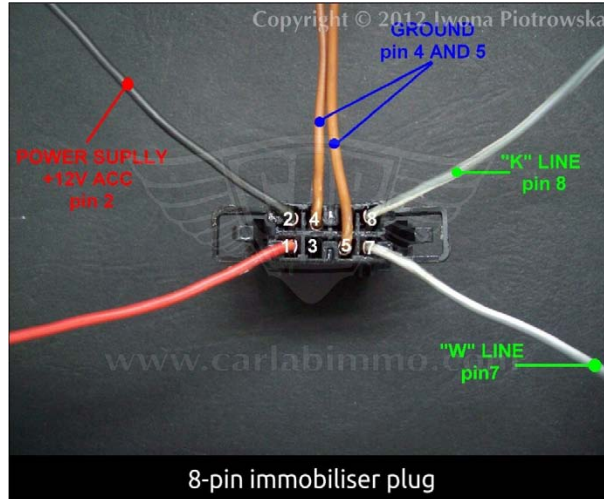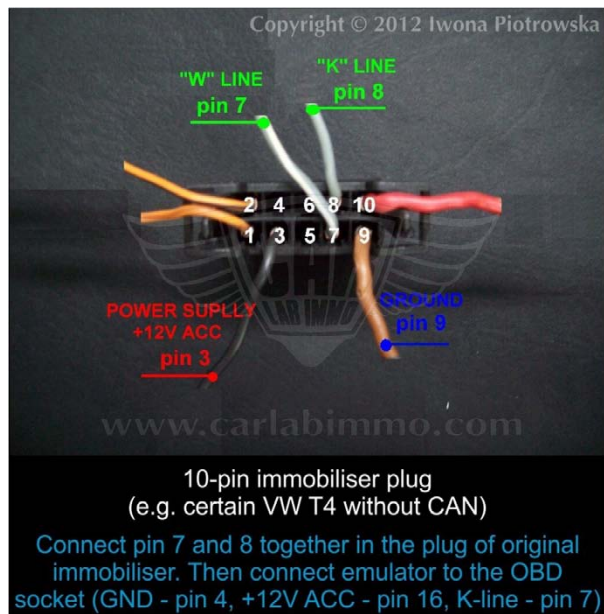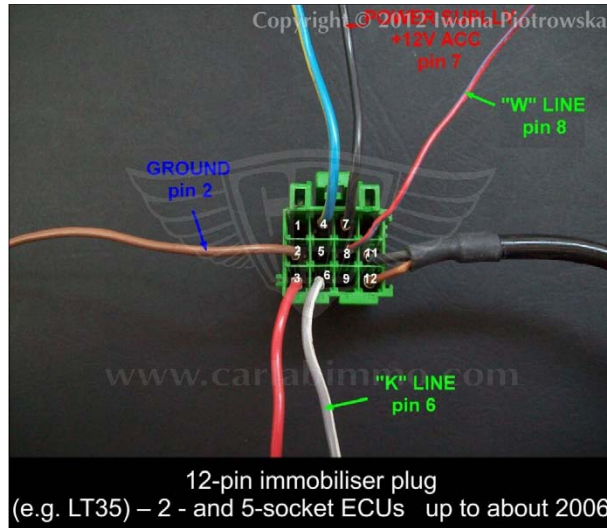
8-pin immobiliser plug
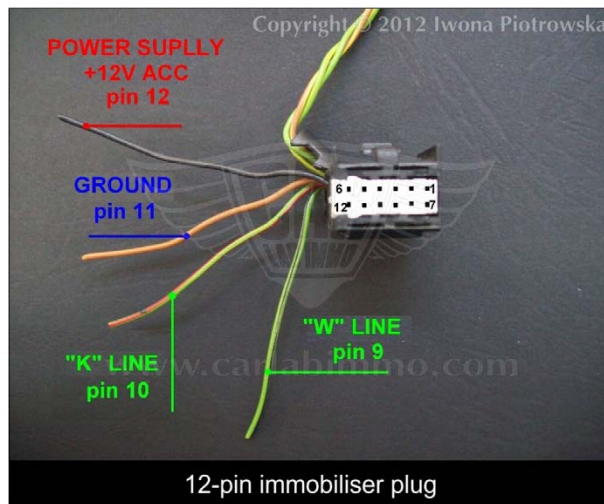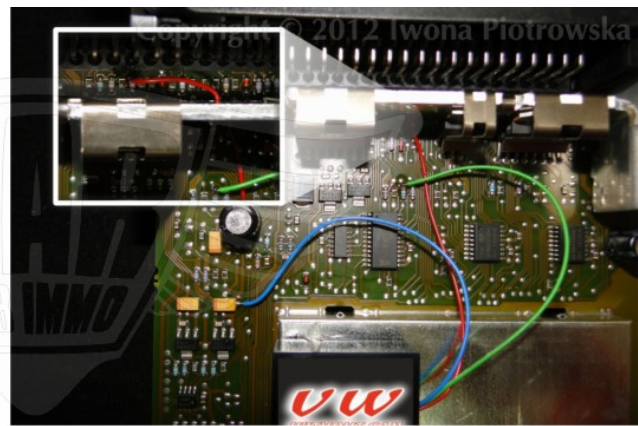

12-pin immobiliser plug

10-pin immobiliser plug
(e.g. certain VW T4 without CAN)

Connect pin 7 and 8 together in the plug of original immobiliser. Then connect emulator to the OBD socket (GND - pin 4, +12V ACC - pin 16, K-line - pin 7)

12-pin immobiliser plug
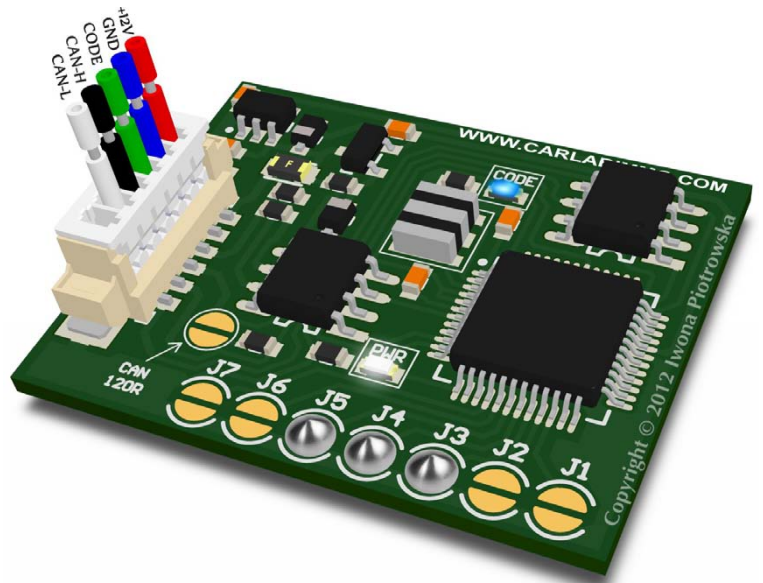(e.g. LT35) – 2 - and 5-socket ECUs   up to about 2006

Connecting emulator to ECU

+12V ACC	38 pin
GND	1 pin
line W	43 pin

VW Hitachi

**In Universal Julie Emulator
solder jumpers J3, J4 and J5**

Available as Universal Julie Emulator
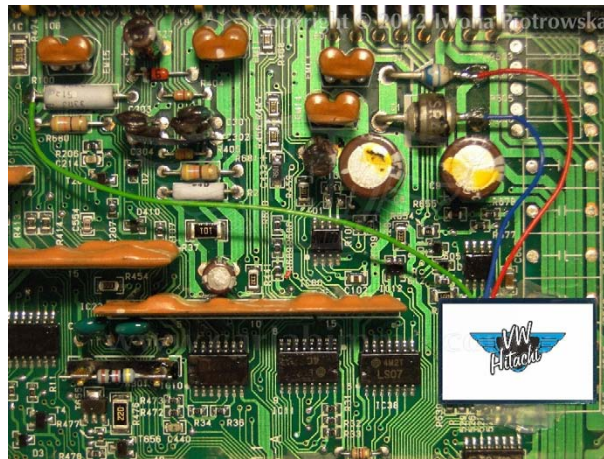program no. 4

USE

Audi A6 2.8 gasoline Hitachi ECU
Engine code – AAH

Connecting emulator to ECU

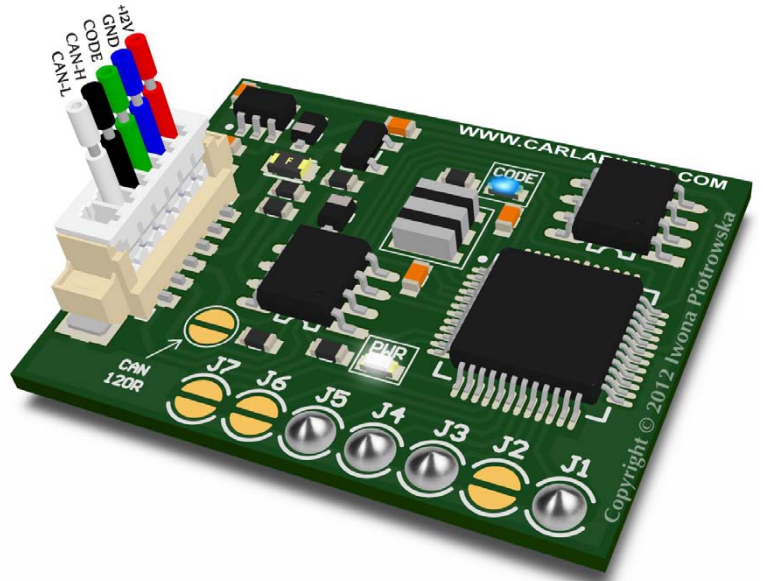+12V connector D - 8 pin

GND connector D - 1 pin

W-line connector C - 12 pin

Unplug the immo and connect W-line with K-line to have a diagnosis.

VW Valve Code

In Universal Julie Emulator solder jumpers J1, J3, J4 and J5

Available as Universal Julie Emulator program no. 5

Connecting in place of the original immobiliser

+12V ACC	red
GND	blue
W-line	green

Unplug immo and connect W-line with K-line to have a diagnosis.
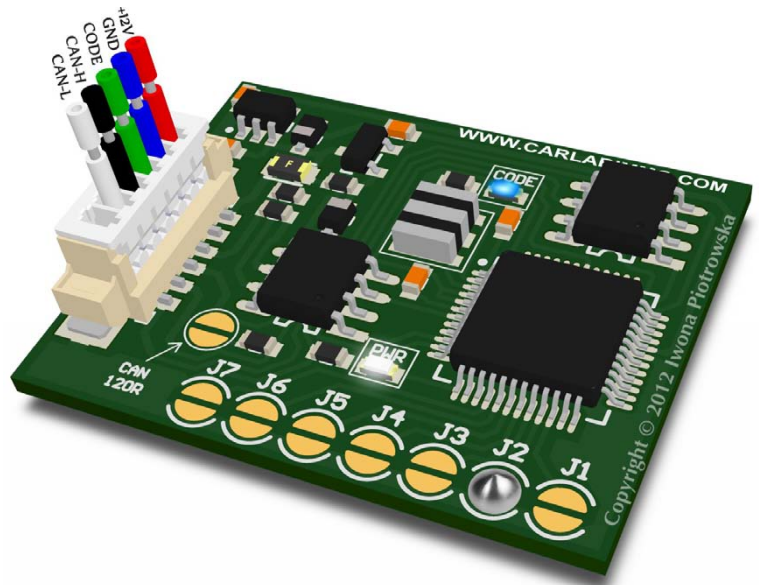
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Connecting emulator to the 6-pin plug of the immobiliser

VW EDC15 immo OFF (single use)

**In Universal Julie Emulator
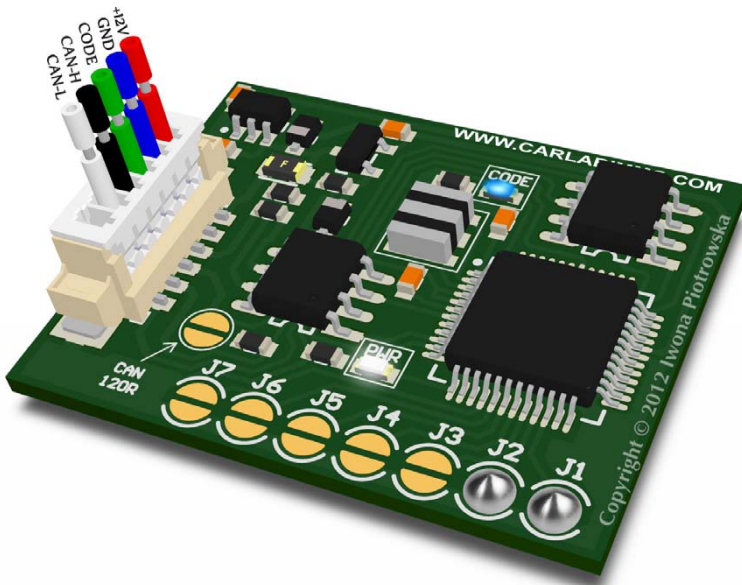solder jumper J2**

Available as Universal Julie Emulator
program no. 6

VW EDC15 immo ON (single use)

**In Universal Julie Emulator
solder jumpers J1 and J2**

Available as Universal Julie
Emulator program no. 7

**VW EDC15 immo OFF or ON programs
are single use and can only be used in one car!**

This emulator replaces damaged immobiliser, instrument cluster or a car key.
Immo gets removed once the emulator is connected to the OBD socket.
In the case of losing car keys or car theft,you will be able to drive to the nearest car garage
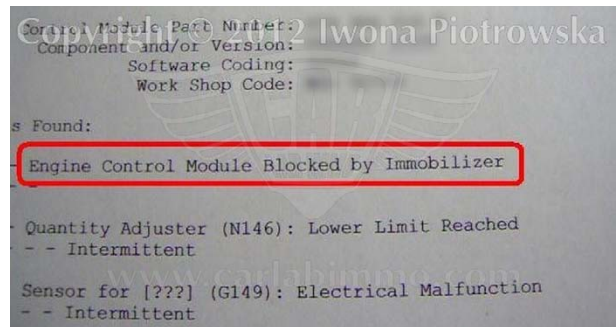
USE

VW EDC15 immo emulator – W2 and W3 systems, diesel engines from 2000 to 2004, some to 2006, and even 2008 (except Audi with coded pump)

Suitable for vehicles with 2-socket ECUs

Engine capacity
1.2 TDI   1.4 TDI   1.9 TDI   2.5 TDI

Before using the emulator, check if there is a connection between ECU and OBD2

You can use a VW EDC15 emulator in the following situations

When getting an Engine Control Module Blocked by Immobiliser fault when making connection with ECU with a diagnostic interface or if your car starts and then dies
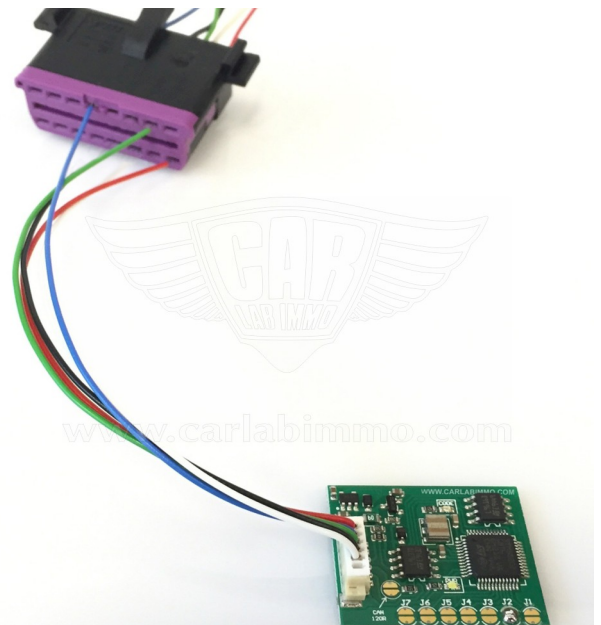
www.carlabimmo.com

16-pin OBD2 socket

1. Connect all the wires to the OBD2 socket

2. TURN IGNITION ON AND WAIT 20 SECONDS

3. When ignition is turned on, connect the emulator's plug to the emulator's PCB. Once connected, blue LED flashes fast and after several seconds the LED should emit a constant light and blink every other second
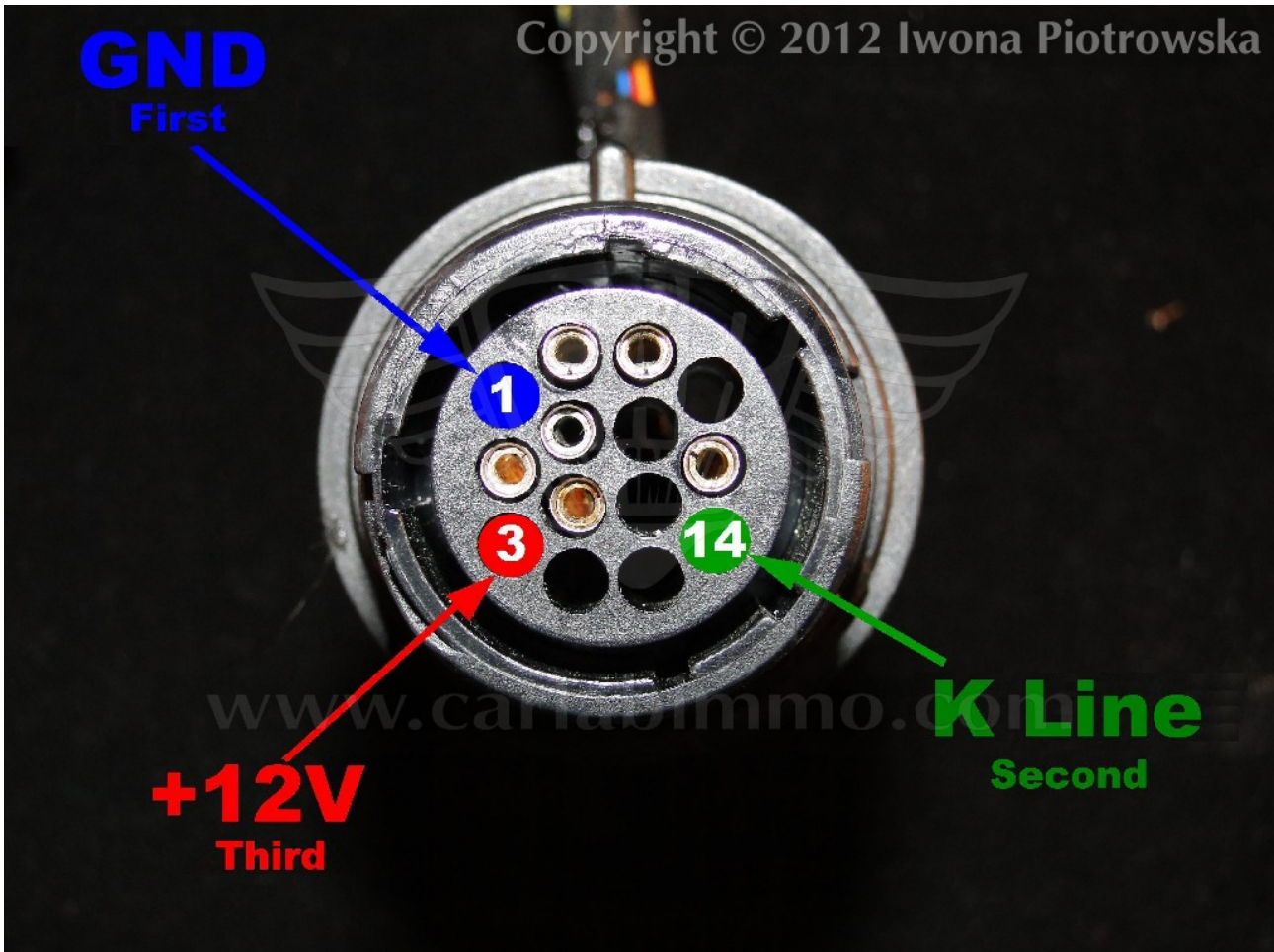

4. Turn ignition OFF and disconnect emulator

VW EDC15 emulator does not remove immo due to a program change to flash memory in ECU:

EDC15 Audi A6 2.5 TDI V6 2003
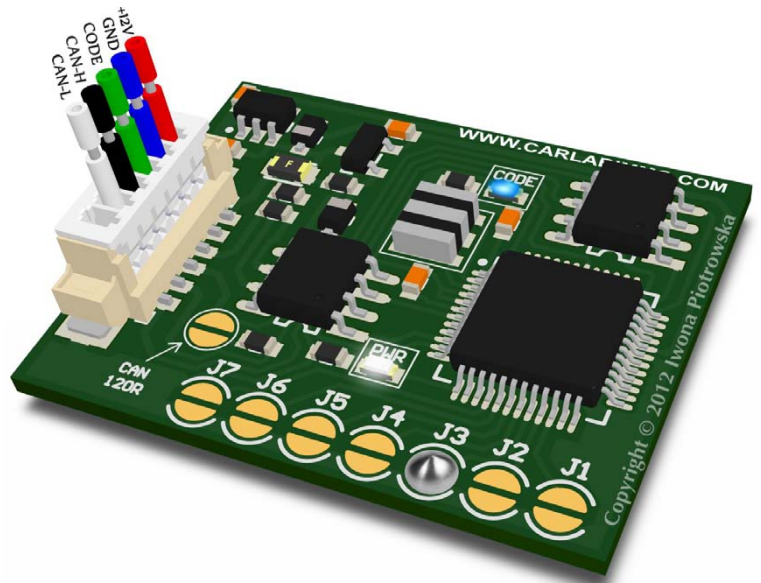8E0 907 401 M   0 281 011 255

14-pin socket in LT

Fitting procedure of emulator is the same as for the OBD2 socket

VW EDC16 K-line immo OFF (single use)
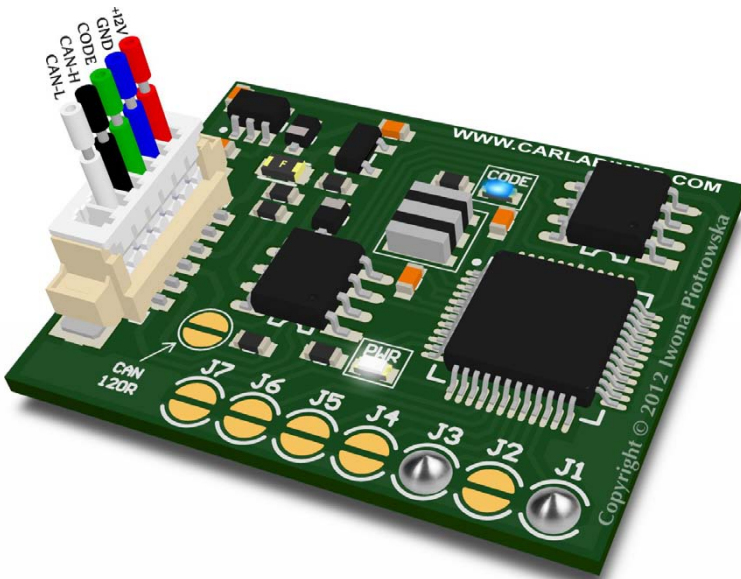
**In Universal Julie Emulator
solder jumper J3**

Available as Universal Julie Emulator
program no. 8

VW EDC16 K-line immo ON (single use)

**In Universal Julie Emulator
solder jumpers J1 and J3**

Available as Universal Julie
Emulator program no. 9

**VW EDC16 K-line immo OFF or ON programs
are single use and can only be used in one car!**

www.carlabimmo.com

This emulator replaces damaged immobiliser, instrument cluster or a car key.
Immo gets removed once the emulator is connected to the OBD socket.
In the case of losing car keys or car theft,you will be able to drive to the nearest car garage

USE

EDC16 K-line – immo OFF
and
EDC16 K-line - immo ON
(turning immo back on is impossible for certain ECUs)

Tested ECUs:

0 281 011 XXX

0 281 011 856 VW T5 1.9 TDI, 2005
0 281 011 568 VW T5 2.5 TDI 2006/2007
0 281 011 883 Skoda Octavia 1.9 TDI 2004 - 2010
0 281 011 855 VW T5 1.9 TDI 2003
0 281 011 258 VW Touareg 2.5 TDI 2003 - 2010
0 281 011 145 VW Passat B5 2.0 TDI 2006 - mechanical ingition switch

0 281 012 XXX

0 281 012 762 VW T5 1.9 TDI 2006 - 2010
0 281 012 390 VW Caddy 1.9 TDI 2003 - 2010
0 281 012 698 Skoda Superb 2.0 TDI 2006
0 281 012 696 Seat Alhambra, VW Sharan 2.0 TDI 2005 -2010
0 281 012 792
0 281 012 220 VW Golf V 1.9 TDI 2005

0 281 013 XXX

0 281 013 440 VW Passat CC 2.0 TDI   2005 - 2009
0 281 013 302 VW Touareg 2.5 TDI 2005 - 2010
0 281 013 311 VW Passat 2.0 TDI 2005 - 2009
0 281 013 606 VW Golf V 1.9 TDI 2006
0 281 013 299 Skoda Octavia 2.0 TDI 2005 - 2011
0 281 013 228 VW Jetta 2.0 TDI 2007

0 281 014 XXX

0 281 014 044 VW Touran 1.9 TDI 2006 - 2010
0 281 014 004
0 281 014 064 VW Golf V 1.9 TDI 2006 - 2008

0 281 014 128 Touran1.9 TDI 2006 - 2010
0 281 014 136 Skoda Octavia 1.9 TDI 2006 - 2010
0 281 014 064 VW Golf V 1.9 TDI 2009

0 281 015 XXX

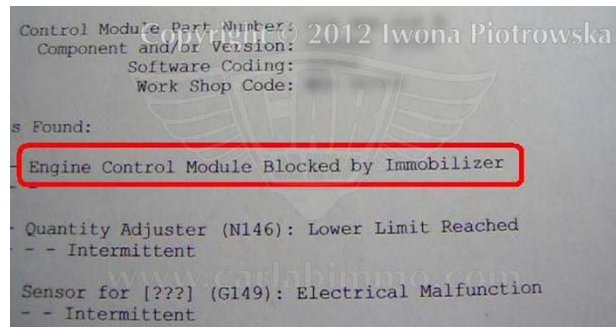0 281 015 175 VW Caddy 1.9 TDI 2008

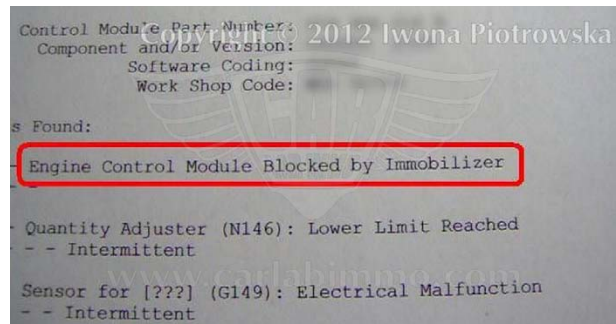**Suitable for vehicles with 2-socket ECUs**

Before using the emulator, check if there is a connection between ECU and OBD2

You can use a VW EDC16 K-line emulator in the following situations

When getting an Engine Control Module Blocked by Immobiliser fault when making connection with ECU with a diagnostic interface or if your car starts and then dies

16-pin OBD2 socket

1. Connect all the wires to the OBD2 socket

2. TURN IGNITION ON AND WAIT 20 SECONDS

3. When ignition is turned on, connect the emulator's plug to the emulator's PCB. Once connected, blue LED flashes fast and after several seconds the LED should emit a constant light and blink every other second

4. Turn ignition OFF and disconnect emulator

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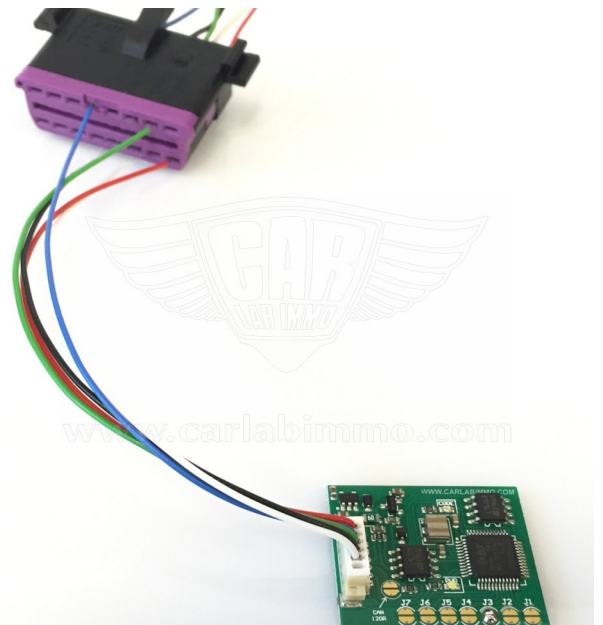
VW EDC16 with CAN 1.9 2.0 TDI immo OFF (single use)
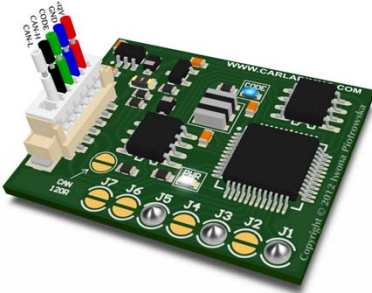
**In Universal Julie Emulator
solder jumpers J1, J3 and J5**

Available as Universal Julie Emulator
program no. 10

VW EDC16 with CAN 1.9 2.0 TDI immo ON (single use)
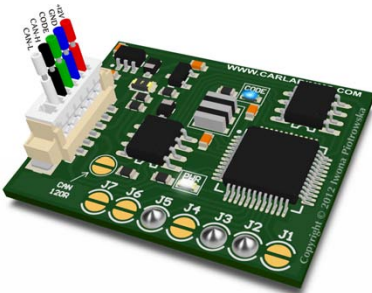
**In Universal Julie Emulator
solder jumpers J2, J3 and J5**

Available as Universal Julie Emulator
program no. 11

VW EDC16 with CAN 2.7 3.0 TDI immo OFF (single use)
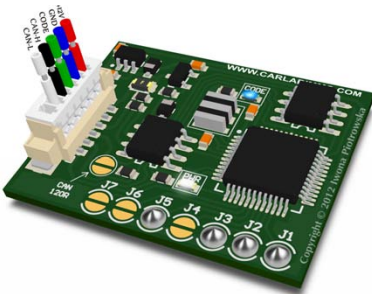
**In Universal Julie Emulator
solder jumpers J1, J2, J3 and J5**

Available as Universal Julie Emulator
program no. 12

VW EDC16 with CAN 2.7 3.0 TDI immo ON (single use)
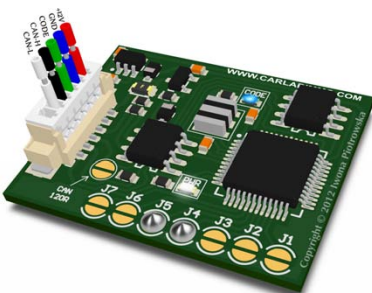
**In Universal Julie Emulator
solder jumpers J4 and J5**

Available as Universal Julie Emulator
program no. 13

You can buy our products and obtain technical support from our distributor. Find a distributor near you by clicking on the link: **www.carlabimmo.com/our-partners**

**VW EDC16 with CAN 1.9, 2.0, 2.7, 3.0 TDI immo OFF or ON programs
are single use and can only be used in one car!**

This emulator replaces damaged immobiliser, instrument cluster or a car key.
Immo gets removed once the emulator is connected to the OBD socket.
In the case of losing car keys or car theft,you will be able to drive to the nearest car garage

Suitable for vehicles with 2-socket ECUs

Before using the emulator, check if there is a connection between ECU and OBD2

You can use this emulator in the following situations

When getting an Engine Control Module Blocked by Immobiliser fault when making connection
with ECU with a diagnostic interface or if your car starts and then dies

USE

EDC16 with CAN 1.9 2.0 TDI – immo OFF
and
EDC16 with CAN 1.9 2.0 TDI - immo ON
(turning immo back on is impossible for certain ECUs)

Tested ECUs:

0 281 012 XXX

0 281 012 113 Audi A4 2.0 TDI 2008
0 281 012 545 Audi 1.9 TDI 2007
0 281 012 546 Audi 1.9 TDI 2006
0 281 012 654 Audi 2.0 TDI 2005

EDC16 with CAN 2.7 3.0 TDI – immo OFF
and
EDC16 with CAN 2.7 3.0 TDI - immo ON
(turning immo back on is impossible for certain ECUs)

Tested ECUs:

0 281 012 270 Audi A6 Quattro 3.0 TDI
0 281 013 177 Audi A6 2.7 TDI 2007
0 281 014 384 Audi A6 2.7 TDI 2007

16-pin OBD2 socket

1. Connect all the wires to the OBD2 socket

2. TURN IGNITION ON AND WAIT 20 SECONDS

3. When ignition is turned on, connect the emulator's plug to the emulator's PCB. Once connected, blue LED flashes fast and after several seconds the LED should emit a constant light and blink every other second

4. Turn ignition OFF and disconnect emulator

VW ME7 immo OFF (single use)

**In Universal Julie Emulator
solder jumpers J1, J4 and J5**

Available as Universal Julie Emulator
program no. 14
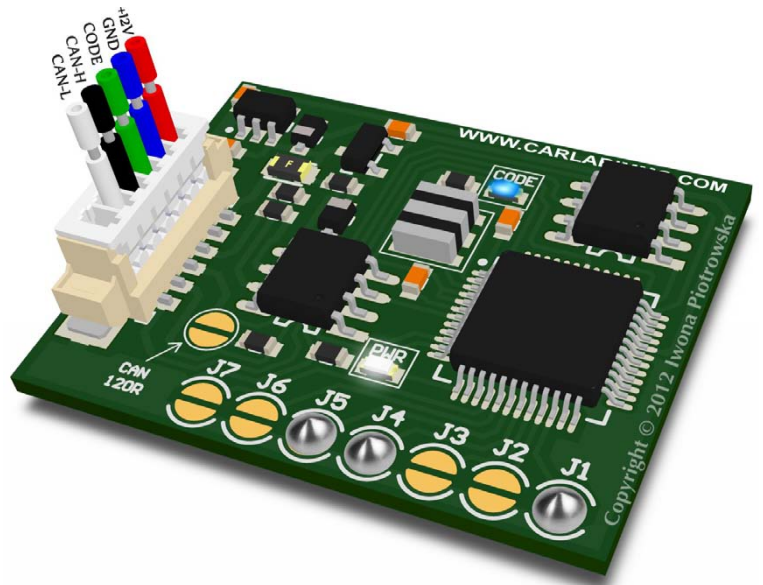
VW ME7 immo ON (single use)

**In Universal Julie Emulator
solder jumpers J2, J4 and J5**

Available as Universal Julie
Emulator program no. 15
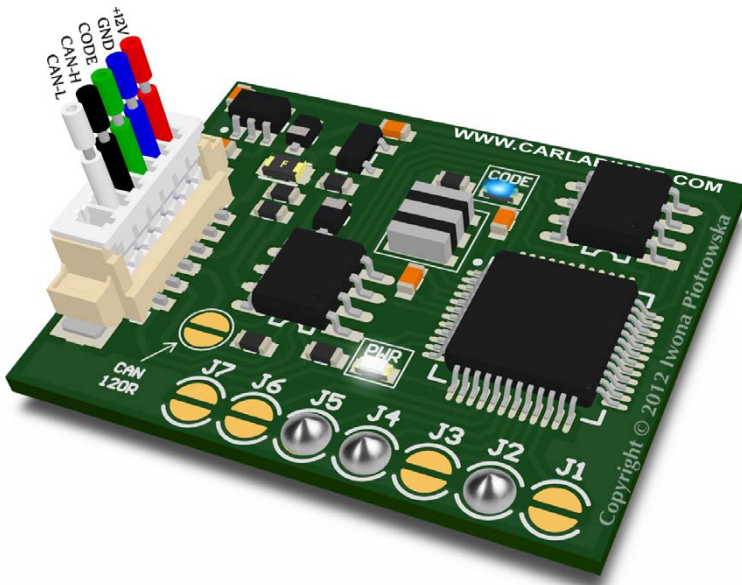
**VW ME7 immo OFF or ON programs
are single use and can only be used in one car!**

This emulator replaces damaged immobiliser, instrument cluster or a car key.
Immo gets removed once the emulator is connected to the OBD socket.
In the case of losing car keys or car theft,you will be able to drive to the nearest car garage

USE

VAG group vehicles with 2-socket Bosch ME7 ECUs

1.0 1.4 1.8 2.0 2.4 2.6 2.8 3.0 3.5 4.2
from 1999 to about 2008

Tested ECUs:

0 261 201 144 VW Golf V 1.4 2002 - 2006
0 261 204 873 Audi A4/ VW Passat 1.8 1999
0 261 207 360 VW Bora 2.0 2000 - 2005
0 261 206 123 VW Passat 2.8 2000
0 261 206 019 Audi A8 4.2 2000
0 261 207 534 Seat Leon 1.8 20V 2002

Suitable for vehicles with 2-socket ECUs
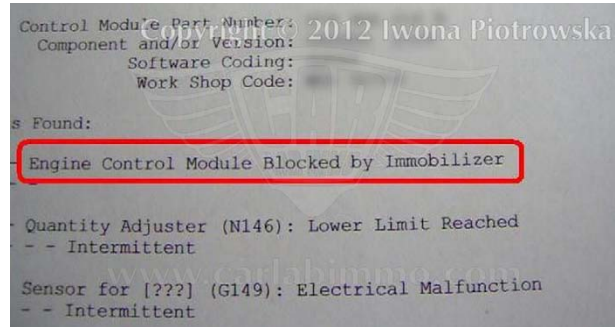
Before using the emulator, check if there is a connection between ECU and OBD2

You can use a VW ME7 emulator in the following situations

When getting an Engine Control Module Blocked by Immobiliser fault when making connection with ECU with a diagnostic interface or if your car starts and then dies

16-pin OBD2 socket

1. Connect all the wires to the OBD2 socket

2. TURN IGNITION ON AND WAIT 20 SECONDS

3. When ignition is turned on, connect the emulator's plug to the emulator's PCB. Once connected, blue LED flashes fast and after several seconds the LED should emit a constant light and blink every other second

4. Turn ignition OFF and disconnect emulator
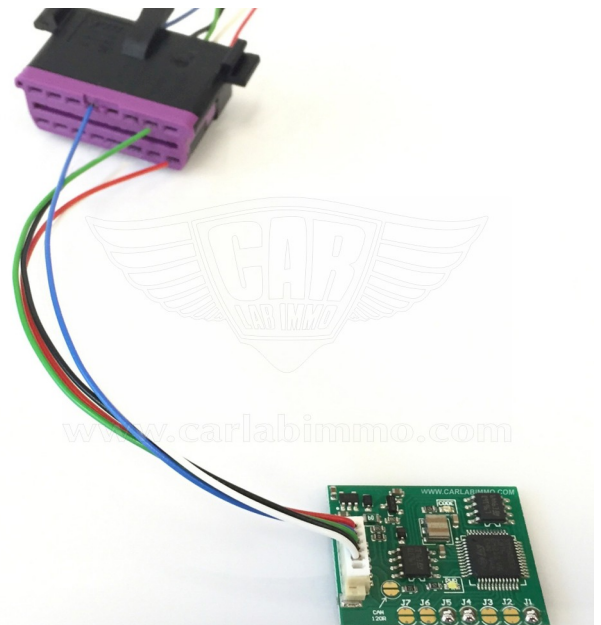
BMW

**In Universal Julie Emulator
solder jumpers J1, J3, J5 and J6**

Available as Universal Julie Emulator
program no. 16
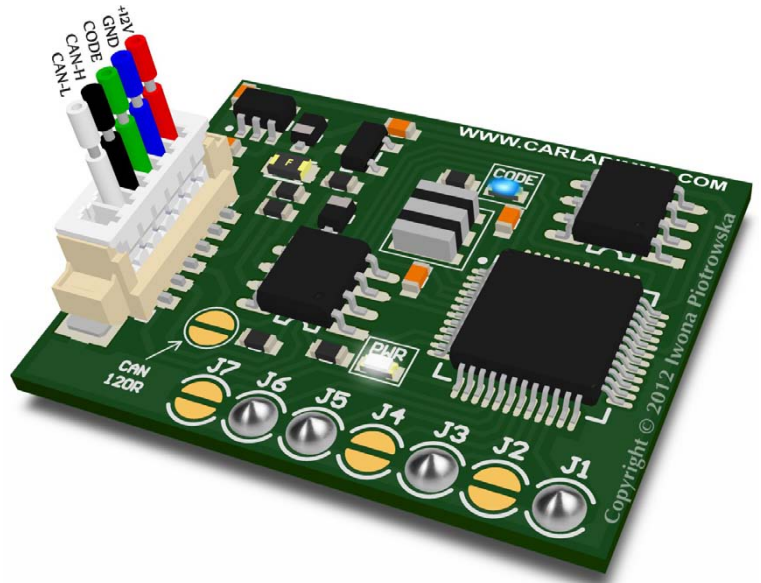
USE

BMW E36 1.6 Gasoline Bosch **0 261 203 660** ECU
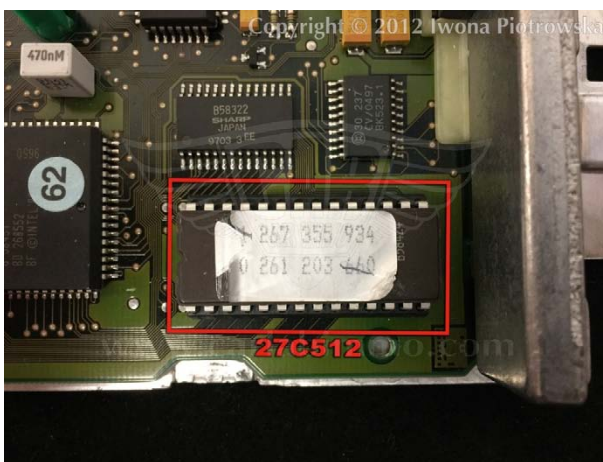
Find and read **27C512** eprom in ECU.
Save the original dump file and then remove the label from the eprom and use UV eraser.

In 27C512 eprom
write 33 33 33 33 values
in addresses from **1FFD1** to **1FFD4**

Write from 1FFD1 to 1FFD4
values 33 33 33 33 .
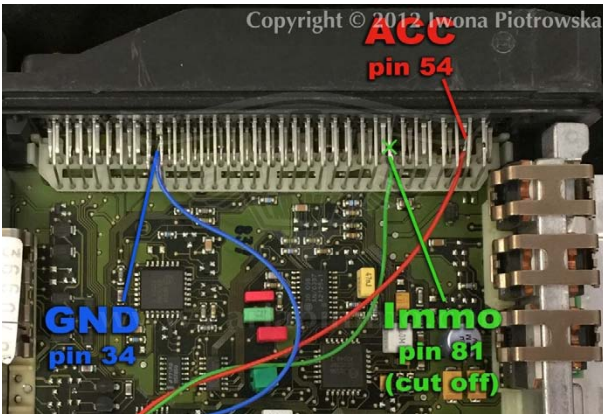
GND	pin 34
+12V ACC	pin 54
immo line	pin 81 (cut off)

Cut off immo line marked in the picture and disconnect EWS.
In order to start the starter you need to join two pins of starter's relay!

Connection diagram example
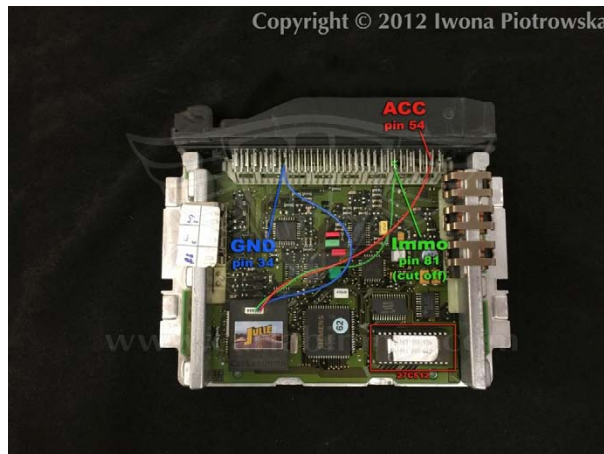
Chrysler

In Universal Julie Emulator solder jumpers J1, J2, J3 and J6

Available as Universal Julie Emulator program no. 17
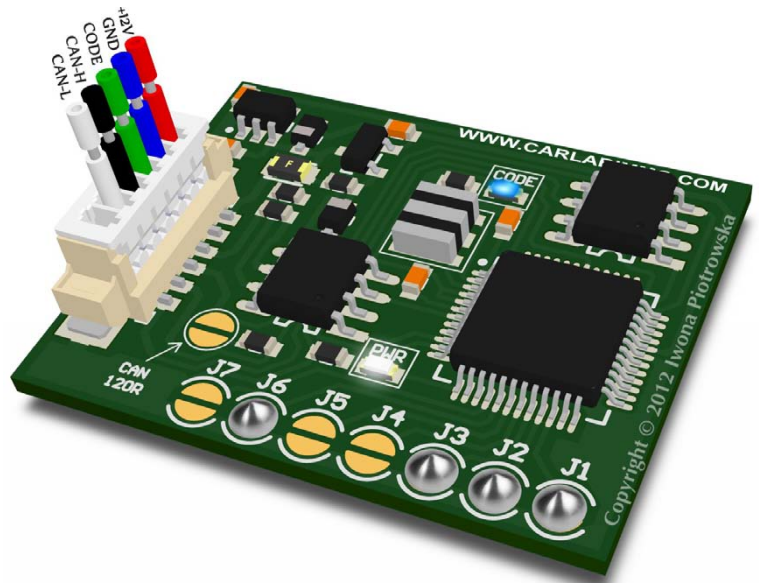
USE

Chrysler Voyager
Dodge Caravan
Jeep Cherokee
2.5TD 1999-2001
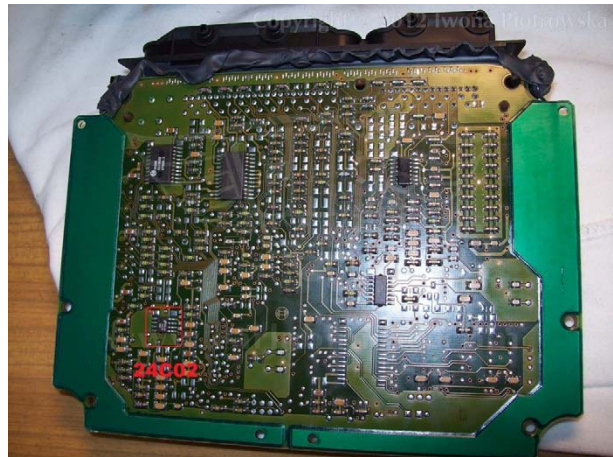
Find **24C02** memory in ECU

In 24C02 memory
write 00 36 59 55 35 33 31 39 35 and 35 values
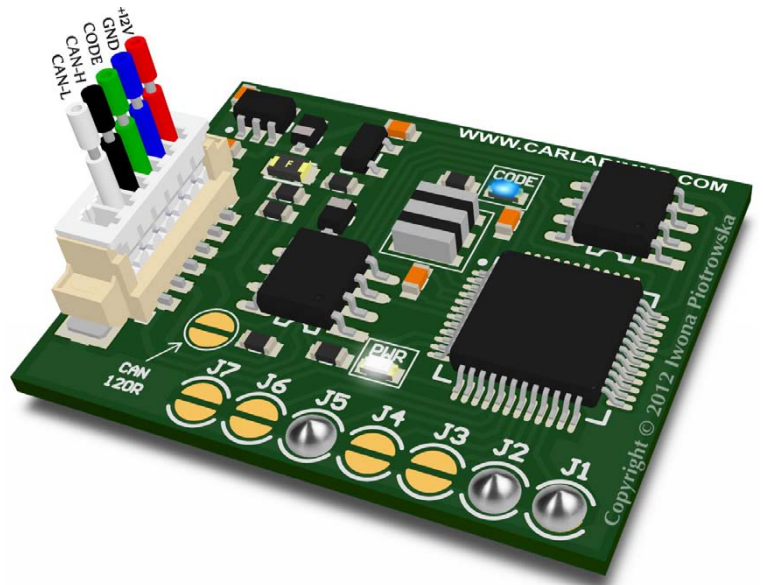in addresses from **037** to **040**

Connection diagram examples
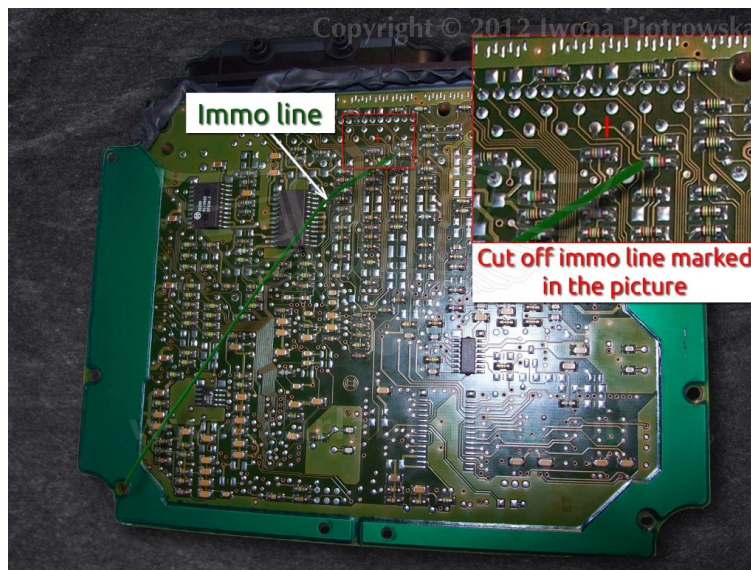
Cut off immo line marked in the picture

Citroen, Peugeot with CAN

**In Universal Julie Emulator
solder jumpers J1, J2, and J5**

Available as Universal Julie Emulator
program no. 18

USE

**EDC16 1.4 1.6 HDI with CAN
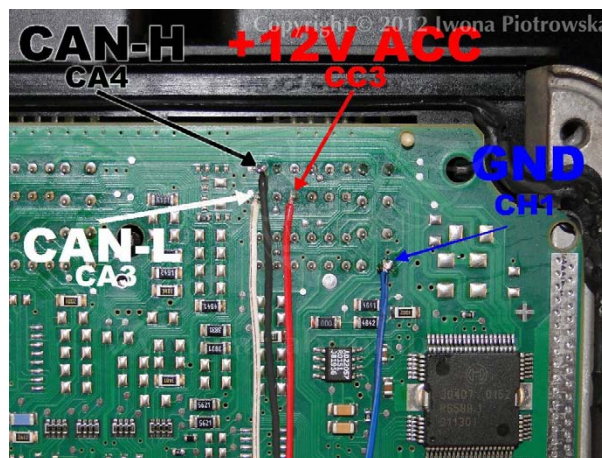EDC15 HDI with CAN**

EDC16 ECUs with CAN
1.4 HDI and 1.6 HDI

www.carlabimmo.com

This emulator requires modification of **95160** or **95320** memory in addresses:

060	B6 F3 B2 30 01 04 FD 40
080	82 92 17 04 54 38 FD E4
0A0	97 E1 A6 36 AB C7 FB F8
860	B6 F3 B2 30 01 04 FD 40
880	82 92 17 04 54 38 FD E4
8A0	97 E1 A6 36 AB C7 FB F8
1060	B6 F3 B2 30 01 04 FD 40
1080	82 92 17 04 54 38 FD E4
10A0	97 E1 A6 36 AB C7 FB F8
1860	B6 F3 B2 30 01 04 FD 40
1880	82 92 17 04 54 38 FD E4
18A0	97 E1 A6 36 AB C7 FB F8

Connecting emulator to ECU

EDC15 HDI with CAN

This emulator requires modification of **5P08C3** memory in addresses shown below:
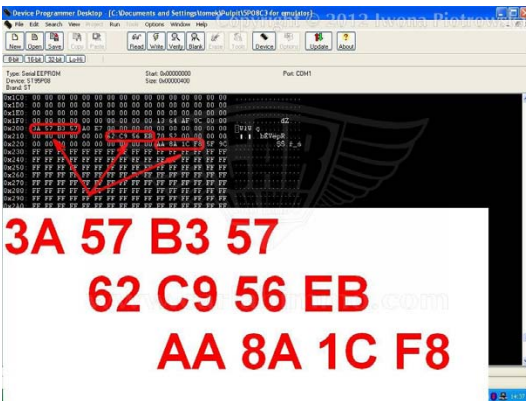
In 200-203 values write:
3A 57 B3 57
In 216-219 values write:
62 C9 56 EB
In 22A-22D values write:
AA 8A 1C F8

Connecting emulator to ECU

Daewoo 1

In Universal Julie Emulator solder jumpers J1, J2 and J3

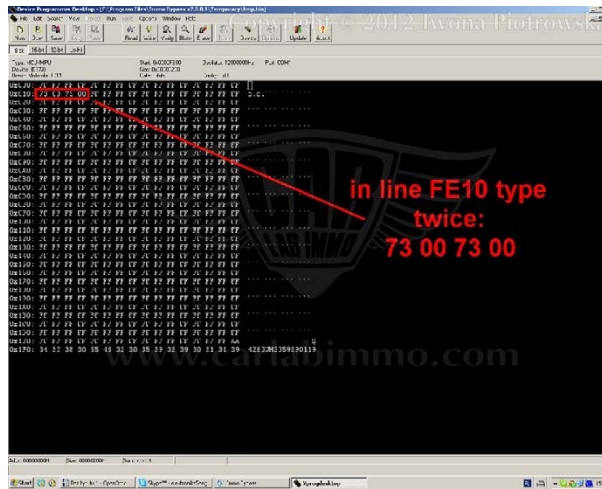Available as Universal Julie Emulator program no. 19
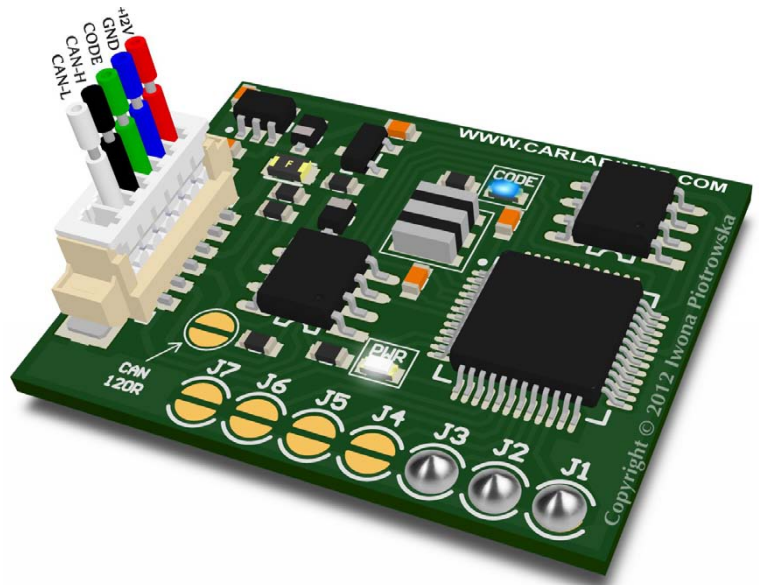
USE
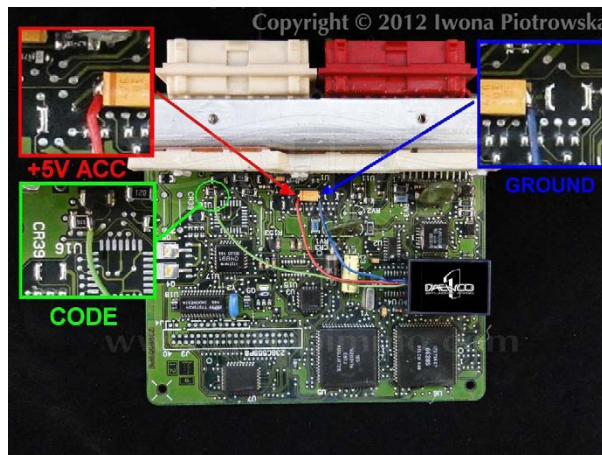
ECUs with white - red sockets and ECUs with blue sockets

ECU with white – red socket
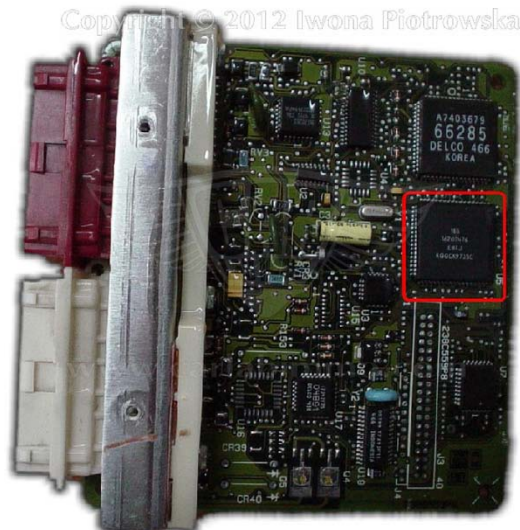
This emulator requires modification of **Motorola HC11F1** processor located in ECU.

In address 10, write value 73 00 73 00 twice

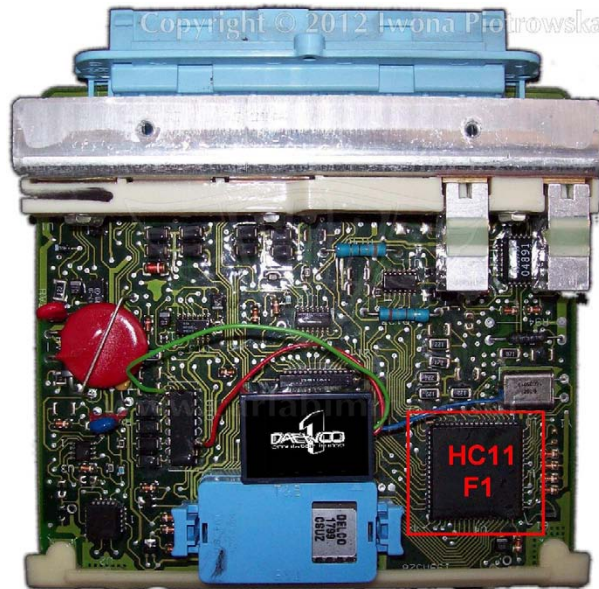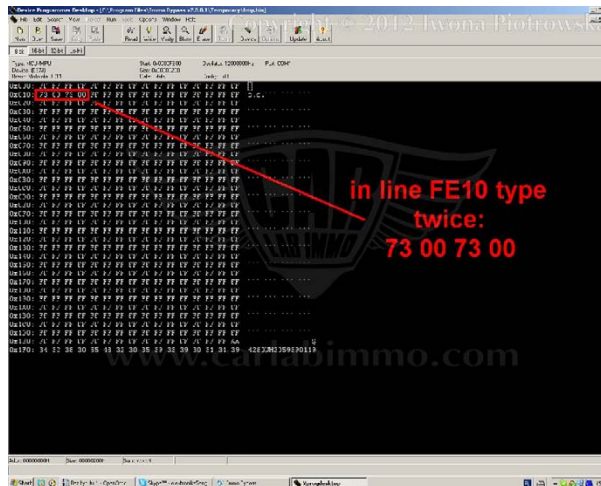Once you modified Motorola, connect emulator to the ECU as pictured.

Before connecting the emulator, it must be precisely insulated with insulation tape and the original immobiliser must be disconnected!!!

In case of problems with starting the car, disconnect power supply (+12V) in ECU and connect +12V ACC in place of power supply.

ECU with blue socket

This emulator requires modification of **Motorola HC11F1** processor located in ECU

in line FE10 type twice:
73 00 73 00

In address **FE10**, write value **73 00 73 00** twice

Once you modified Motorola, connect emulator to the ECU as pictured.

+5V VCC	leg 11 of DELCO 9621 unit
GND	GND of resonator (quartz)
Code	leg 1 of DELCO 9621 unit

Disconnect immo or cut off pin B7 from ECU

Before connecting the emulator, it must be precisely insulated with insulation tape and the original immobiliser must be disconnected!!!

In case of problems with starting the car, **disconnect power supply (+12V) in ECU** and connect +12V ACC in place of power supply.

Daewoo 2

**In Universal Julie Emulator
solder jumpers J2 and J4**

Available as Universal Julie Emulator
program no. 20
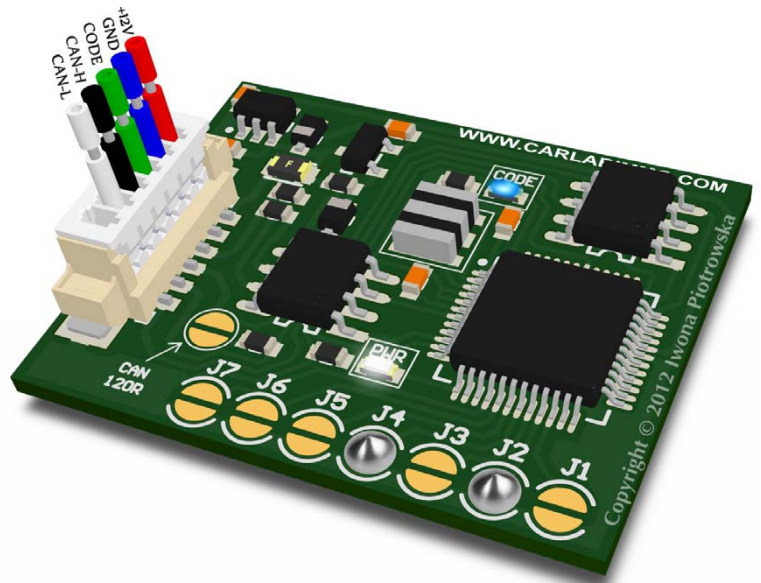
This device self-learns ECU code

USE

**Matiz SIEMENS ECU
Matiz KEMSCO ECU
Tacuma KEMSCO ECU
Chevrolet Spark D32 ECU 0.8ccm 38kW
Lanos hybrid ECU 1.4 OHC
Rezzo hybrid ECU 2.0 16V 89kW DOHC
Kalos SIRIUS D42 ECU 1.2
Chevrolet Aveo 4R ECU 1.2 8V**

Matiz SIEMENS ECU
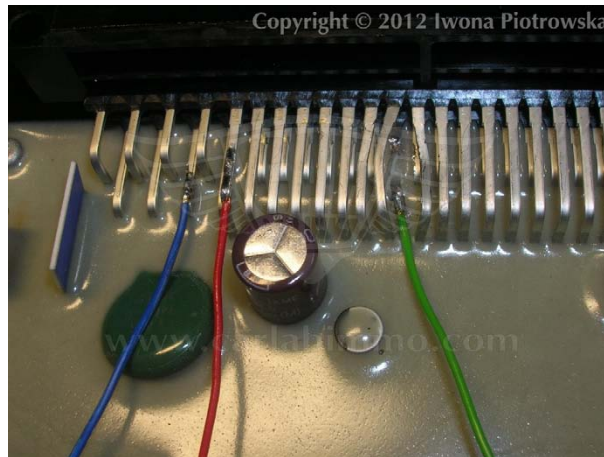
Connecting emulator to ECU

Power	32 pin (or pin 24 ACC)
GND	3 pin
Immo	11 pin

Cut off pin 11 from wiring in the car !!!

Matiz KEMSCO ECU

Connecting emulator to ECU
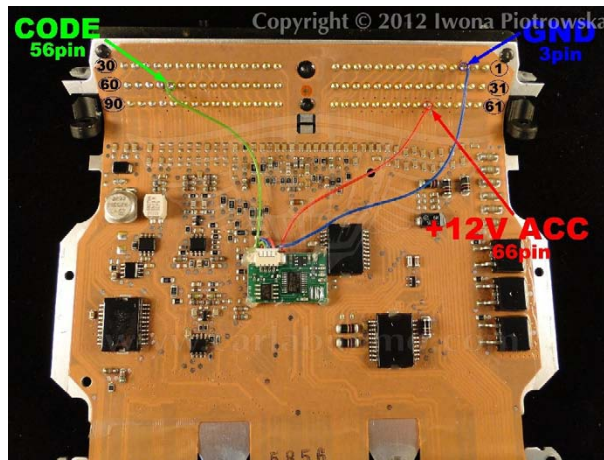
Tacuma KEMSCO ECU

Connecting emulator to ECU

Power	60 pin
GND	3 pin
Immo	56 pin

Cut off pin 56 from wiring in the car!!!

www.carlabimmo.com

Chevrolet Spark D32 ECU 0.8ccm 38kW
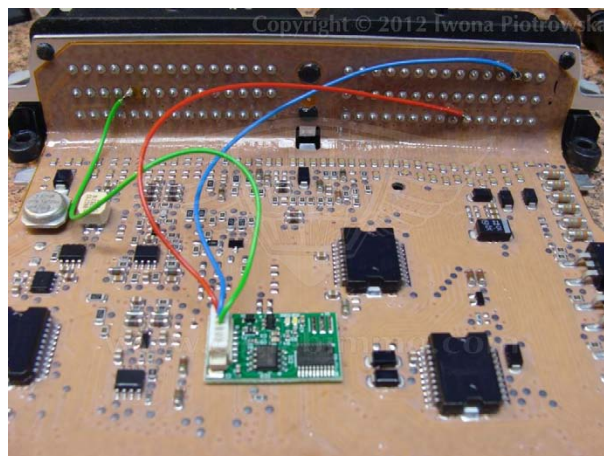
Connecting emulator to ECU

Power	66 pin
GND	3 pin
Immo	56 pin

odciąć - cut off
56pin

**Lanos hybrid ECU 1.4 OHC
and
Rezzo hybrid ECU 2.0 16V 89kW DOHC**
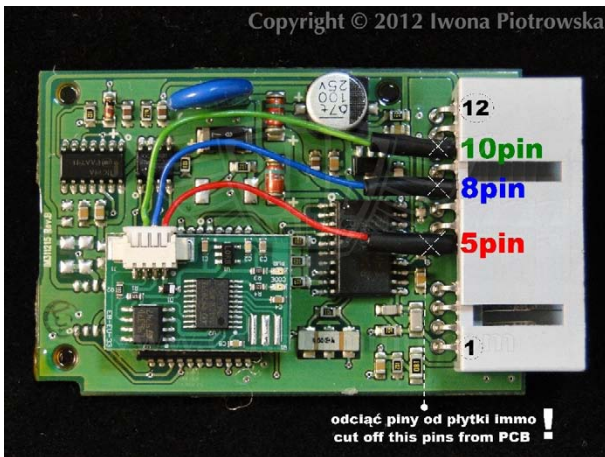
Connect emulator to the socket of disconnected immobiliser:

Power	5 pin
GND	8 pin
Immo	10 pin

Or connect it to ECU socket

Power	18 pin (socket - K)
GND	39 pin (socket - M)
Immo	32 pin (socket - K)

Cut off pin 32 from wiring in the car!!!
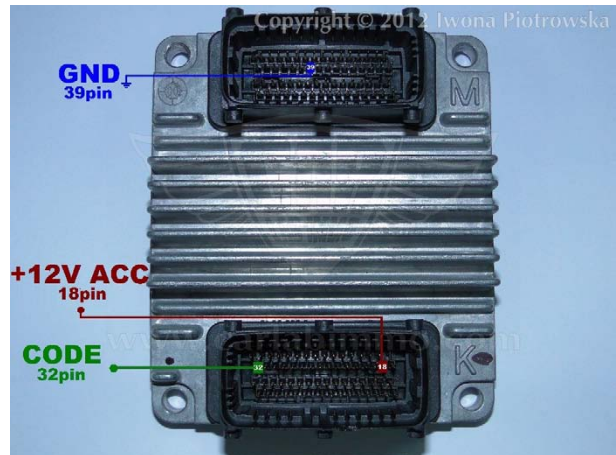
Kalos SIRIUS D42 ECU 1.2

Connecting emulator to ECU

Power	29 pin
GND	28 pin
Immo	56 pin

Cut off pin 56 from wiring in the car!!!

www.carlabimmo.com

Chevrolet Aveo 4R ECU 1.2 8V
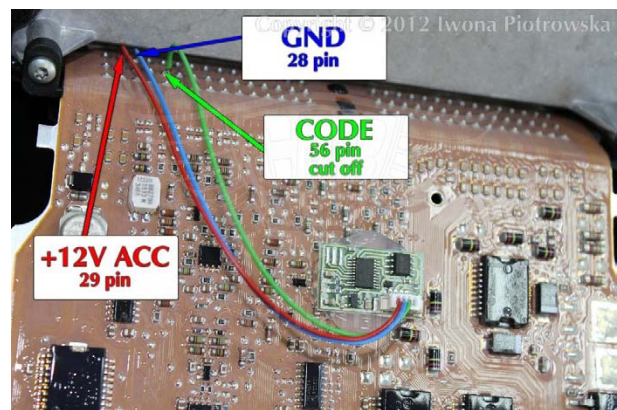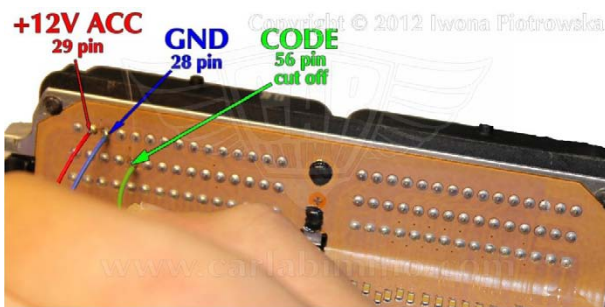
Connecting emulator to ECU

Power	**29 pin**
GND	**28 pin**
Immo	**56 pin**

Cut off pin 56 from wiring in the car!!!

Fiat without CAN

**In Universal Julie Emulator
solder jumpers J4**

Available as Universal Julie Emulator
program no. 21
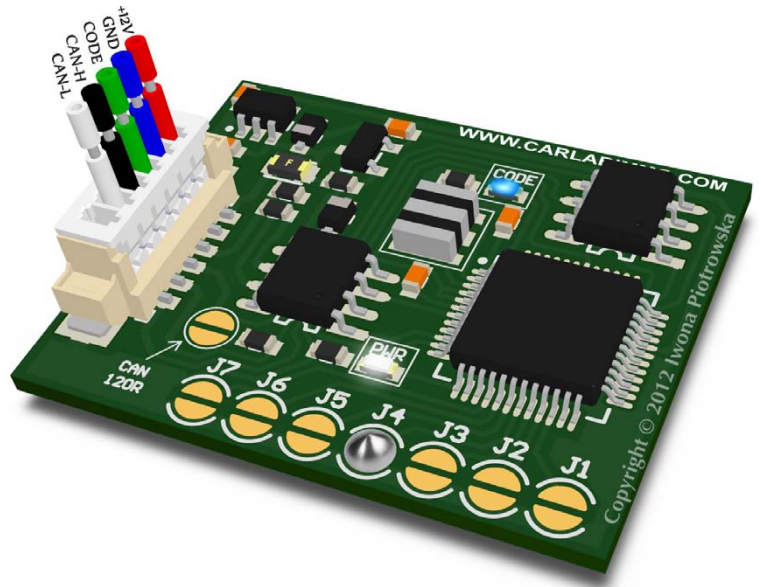
USE

Fiat, Citroen, Peugeot diesel
2-socket ECU

Alfa, Fiat, Lancia
1.9 Jtd 2.4 Jtd 5-socket ECU

IAW49F
Fiat Bravo 1.6 16V

IAW 4AF
Fiat Seicento, Panda 1.1 8V

Lancia Kappa 2.0i 16V Turbo
0 261 203 792

Lancia Kappa 2.0i 20V
0 261 203 670

Lancia Kappa 2.4i 16V
0 261 203 669

Lancia Kappa 3.0i 24V
0 261 203 482

Fiat, Citroen, Peugeot diesel
2-socket ECU
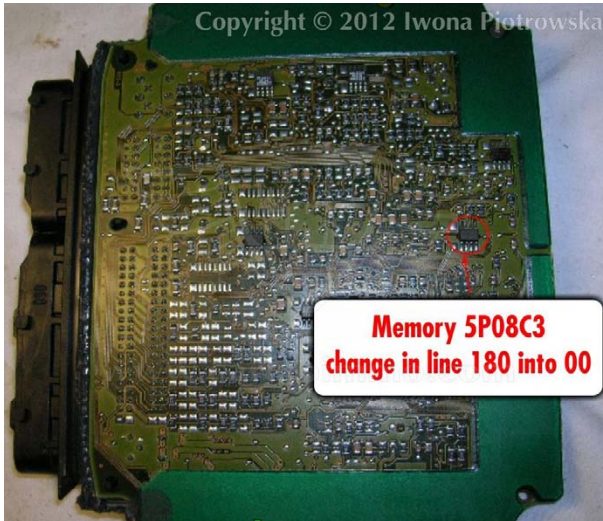
After modifying **5P08C3** memory in line 180 into 00 values, connect emulator in place of the original immobiliser
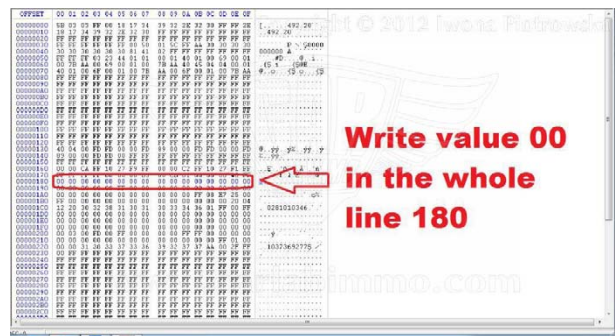
Connecting emulator to ECU
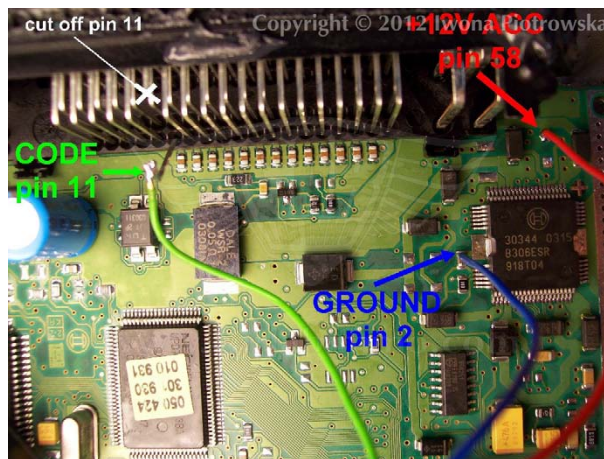
Alfa, Lancia, Fiat 1.9 Jtd 2.4 Jtd
5-socket ECU
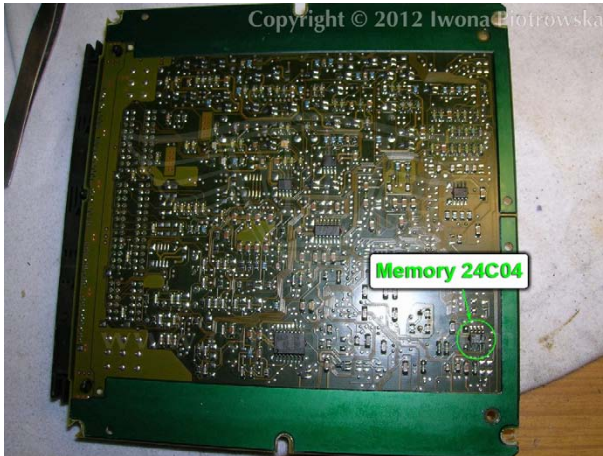
In addresses from 1EA to 1F9, change these values into 00 in 24C04 memory

Write value 00 in address from 1EA to 1F9

Connecting emulator to ECU

GROUND pin A4

+12V ACC pin B13
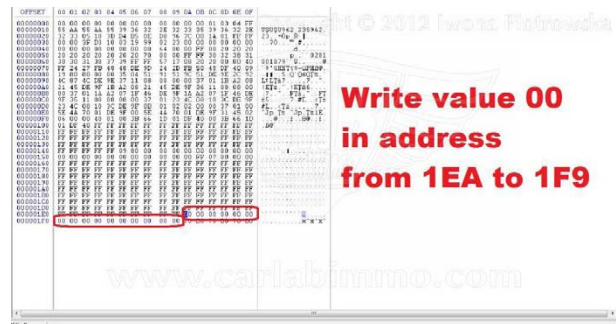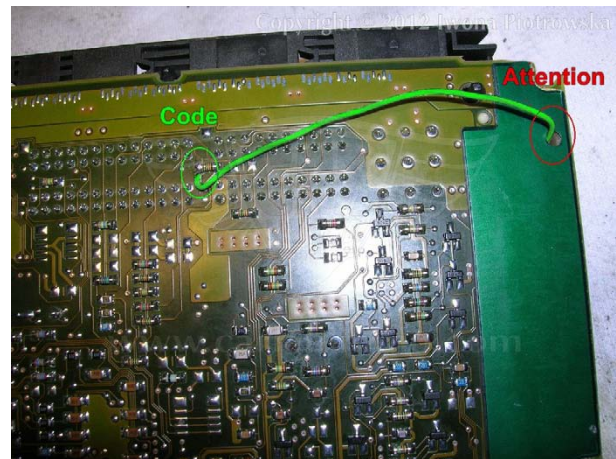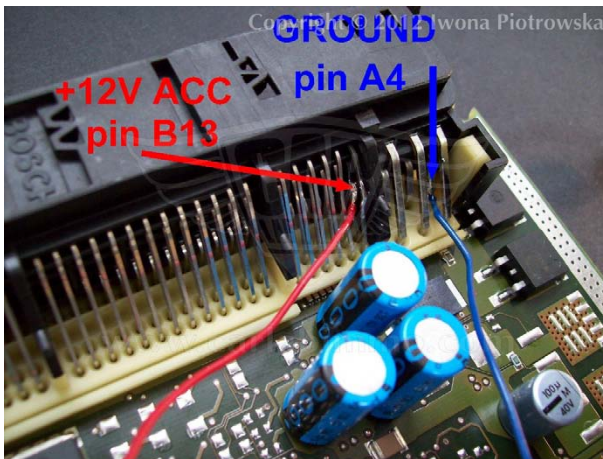
Attention

Code

ACC	B.13 pin
GND	A.4 A.5 A.6 pin
Code	C.13 pin (cut off)

ATTENTION!

When putting ECU back together, put a piece of cardboard on the wire making sure not to tighten it firmly in this area. Alternatively, break off a piece of clamp holder and drag the cable over to the other side
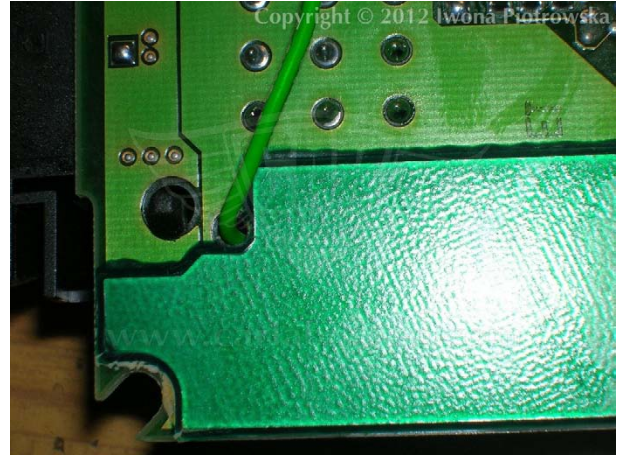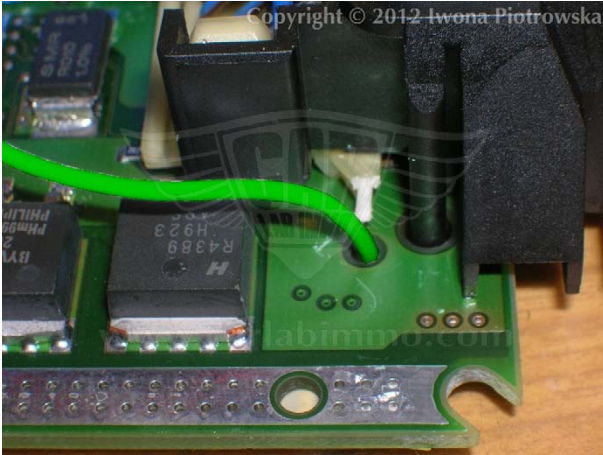
IAW49F
Fiat Bravo 1.6 16V

Find memory **95040** in ECU
and then program it according to picture
below

Write value FF from 09C to 1FF
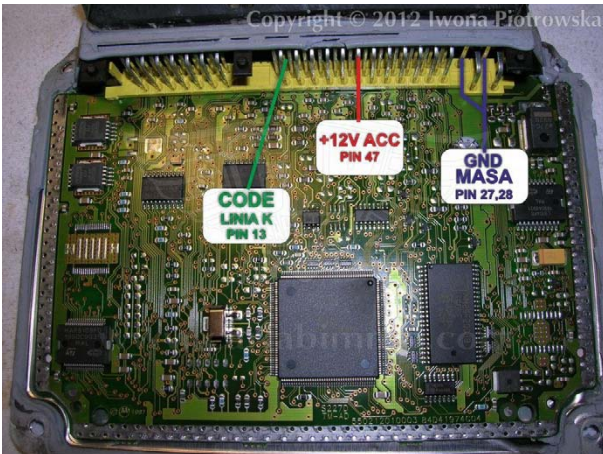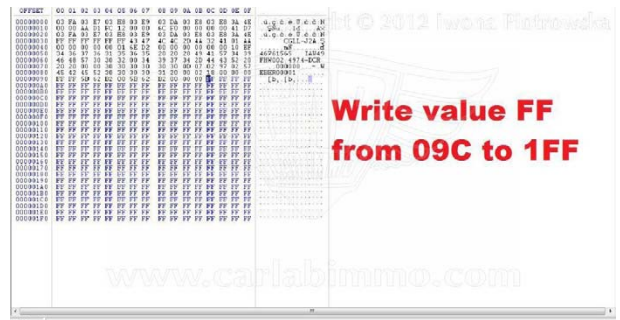
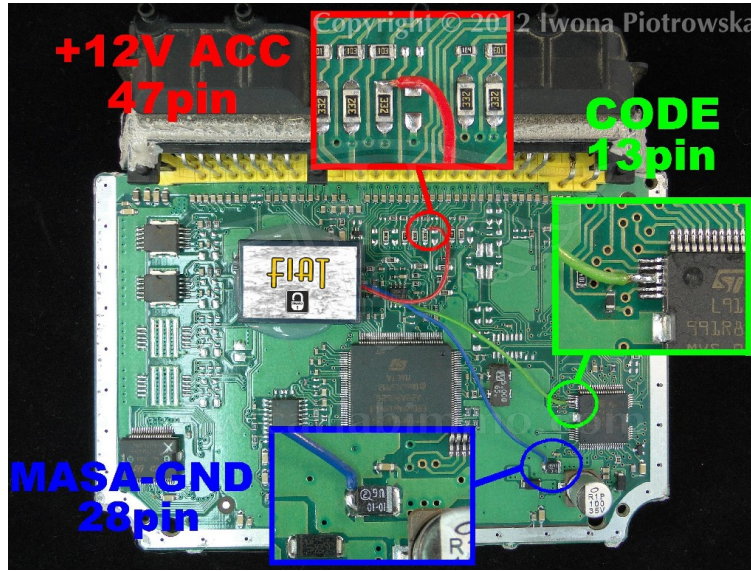**Connecting emulator to ECU**

Cut off pin 13 from wiring in the car !!!

IAW 4AF
Fiat Seicento, Panda 1.1 8V

Cut off pin 13 from wiring in the car !!!

Find memory **95160** in ECU
and then program it according to picture below

For coding :
from 090 to 0AF write FF .

Lancia Kappa 2.0i 16V Turbo
0 261 203 792

ACC	37 or 27 pin
GND	14, 19, 24 pin
Code	55 pin

Connect immo line to **pin 55**.
Disconnect immo. Connect A6 and A5 together.

To have diagnosis, the immo line must be made in the reset button.

This device self-learns ECU code

Lancia Kappa 2.0i 20V
0 261 203 670

ACC	37 or 27 pin
GND	2, 14, 19, 24 pin
Code	55 pin

To have diagnosis, the immo line must be
made in the reset button.
Connect A6 and A5 together.

This device self-learns ECU code

Lancia Kappa 2.4i 16V
0 261 203 669

Connect immo line to **pin 55**. Disconnect immo. Connect A6 and A5 together.
To have diagnosis, the immo line must be made in the reset button.

ACC	27 pin
GND	19 pin
Code	55 pin

This device self-learns ECU code

Lancia Kappa 3.0i 24V
0 261 203 482

Connecting emulator to ECU

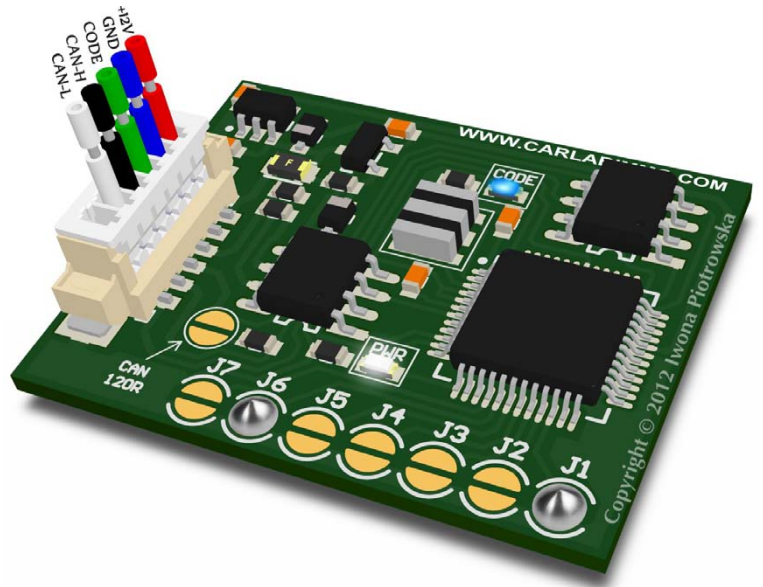| ACC	56 pin
GND	55 pin
Code	88 pin

Fiat with CAN

**In Universal Julie Emulator
solder jumpers J1 and J6**
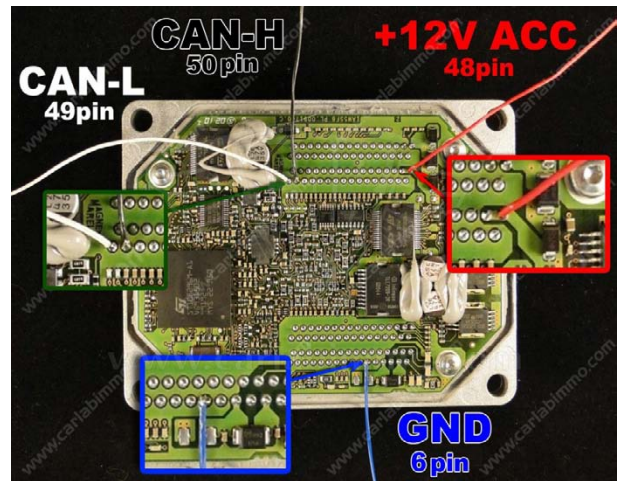
Available as Universal Julie Emulator
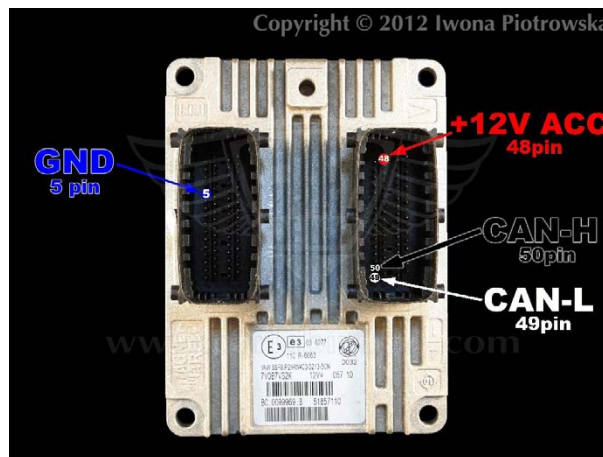program no. 22

USE

Fiat with CAN 5SF and 6F3 ECU

www.carlabimmo.com

Connecting emulator to 5SF ECU
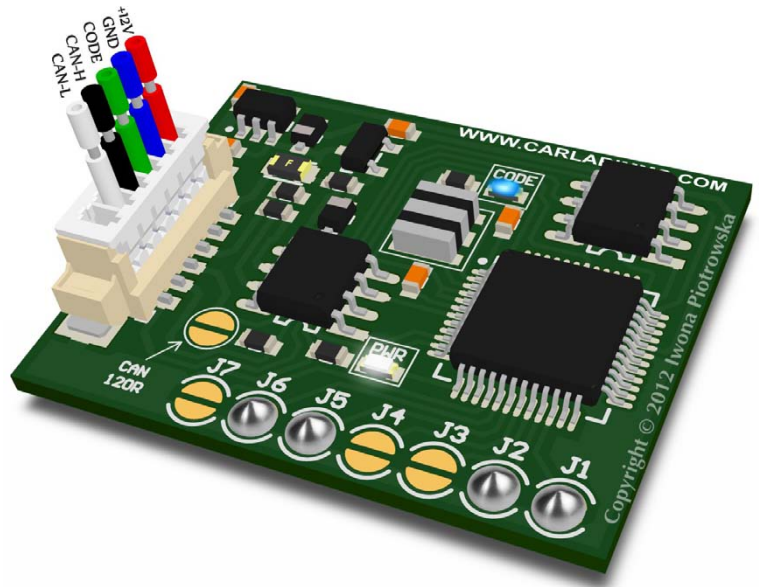

Connecting to ECU socket

+12V ACC	48 pin
GND	5 or 6 pin
CAN-L	49 pin
CAN-H	50 pin

You can buy our products and obtain technical support from our distributor. Find a distributor near you by clicking on the link: www.carlabimmo.com/our-partners

FSO Polonez

**In Universal Julie Emulator
solder jumpers J1, J2, J5 and J6**
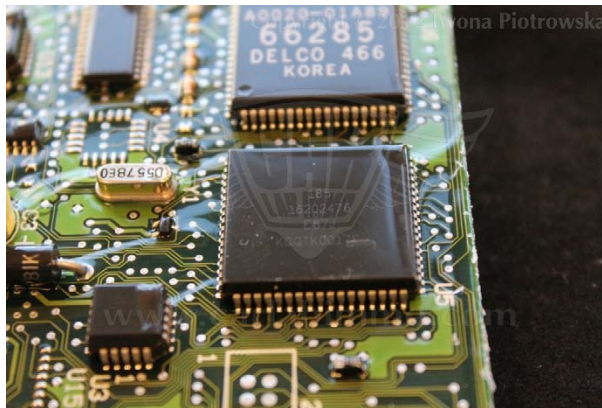
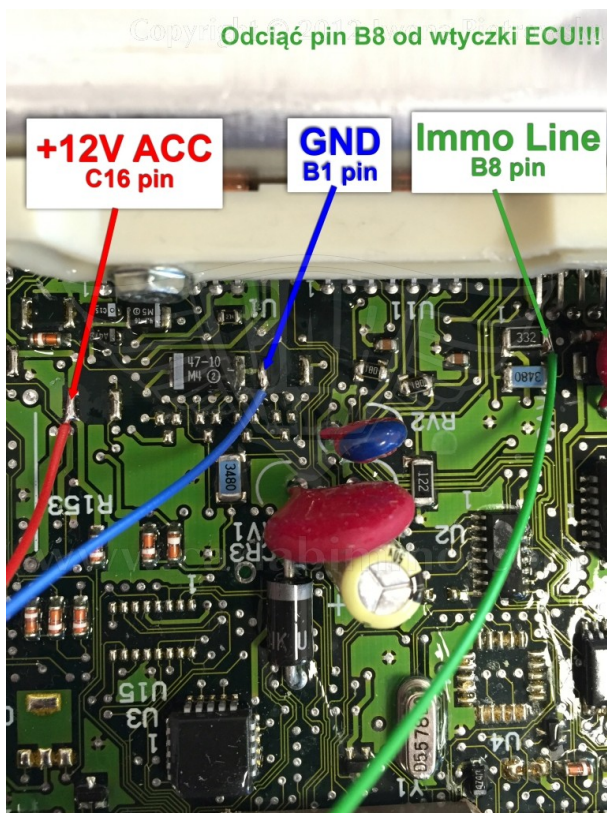Available as Universal Julie Emulator
program no. 23

USE

FSO Polonez 1.6GSi

DELCO DAFZ ECU

Find Motorola **HC11F1** processor in ECU

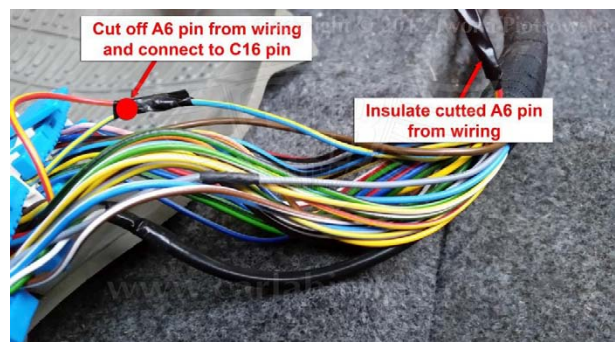In the addresses from **120** to **121**, write **3E 62** values

Connecting emulator to ECU

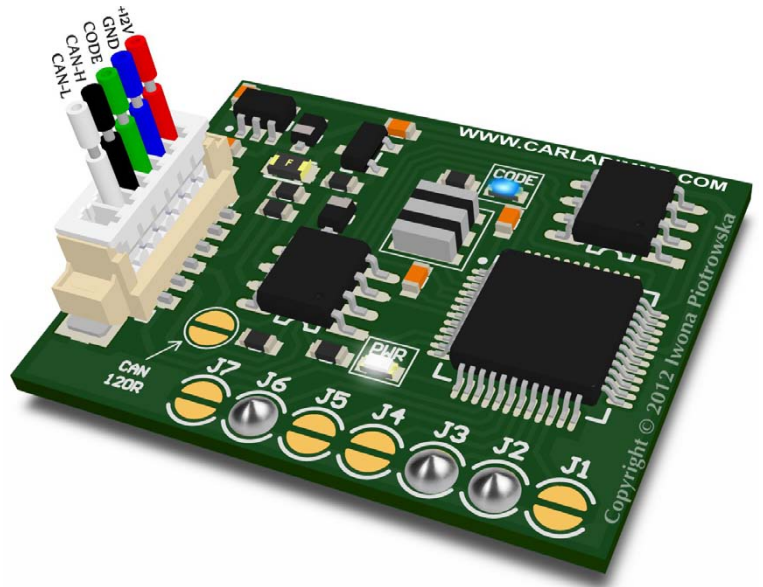| +12V ACC	red
GND	blue
Immo	green

Cut off pin B8 from ECU plug!

Honda

**In Universal Julie Emulator
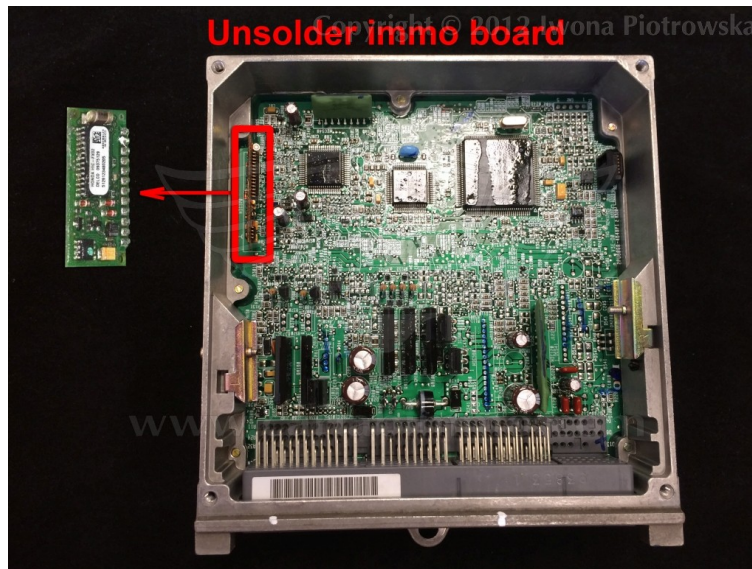solder jumpers J2, J3 and J6**

Available as Universal Julie Emulator
program no. 24

USE

**Honda: Accord, CRV, Civic and other
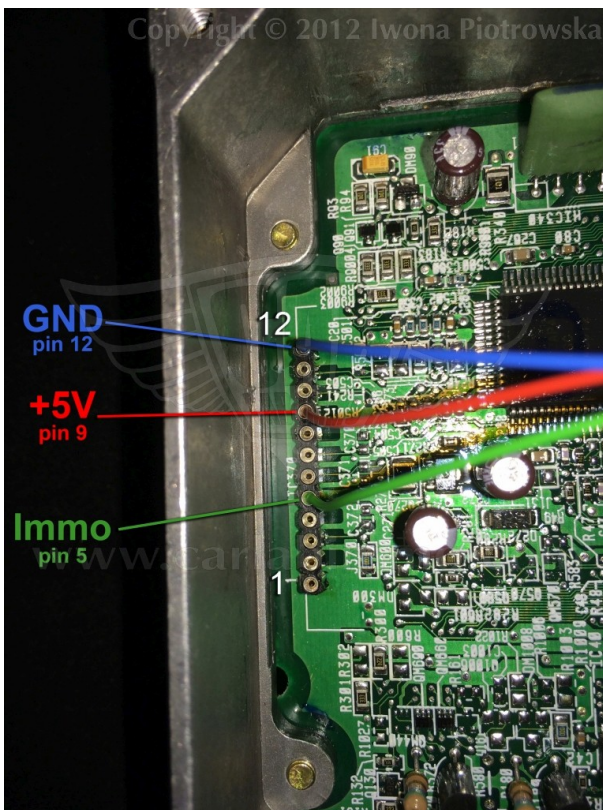(production year1999 - 2002)**

The emulator only works with ECU that has got immo board equipped with 28-pin processor with a label

Unsolder this immo board as shown in the picture above

In the place of the immo board, solder in the emulator

Example connection diagram of **Honda emulator**

Example connection diagram of **Universal Julie emulator**

Before starting the car, disconnect the plug from immo box!!!

Disconnect plug from immo box

That's how the plug looks once disconnected

ECU Bosch M4.6.1
0 261 204 830

Honda Accord
1.6i 1999 year

Unsolder !!!

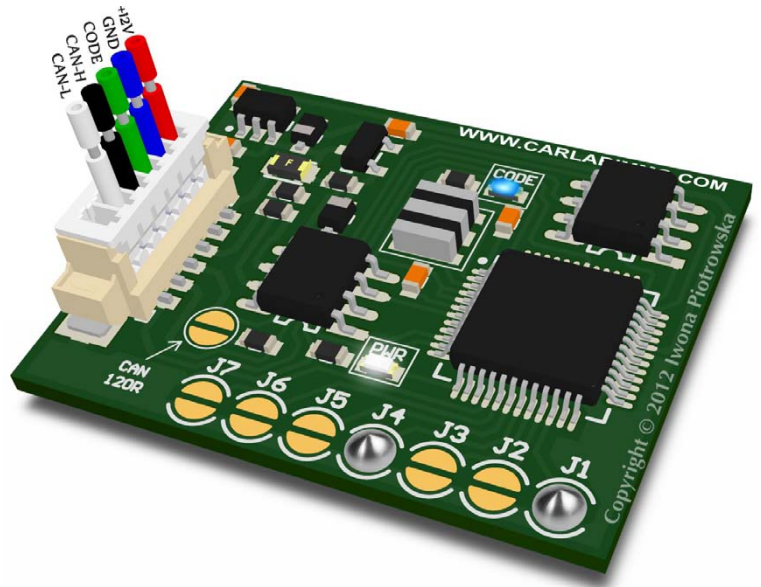Disconnect

Kia Sportage 2.0 TD

In Universal Julie Emulator solder jumpers J1 and J4

Available as Universal Julie Emulator program no. 25

USE

Kia Sportage 2.0 TD
ZEXEL ECU immo with remote control

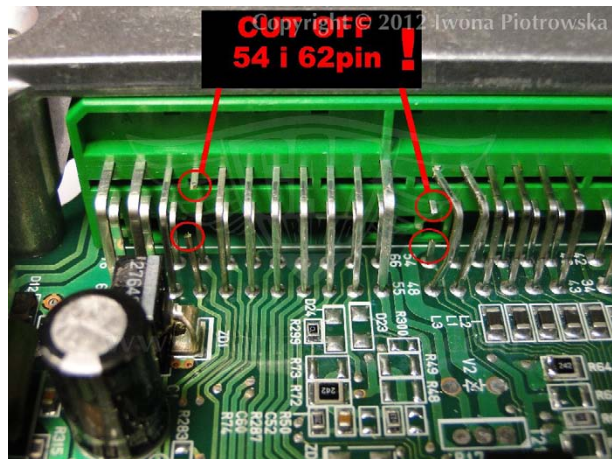ECU is located under the floor mat at the front of the passenger-side footwell.

Connecting emulator to ECU

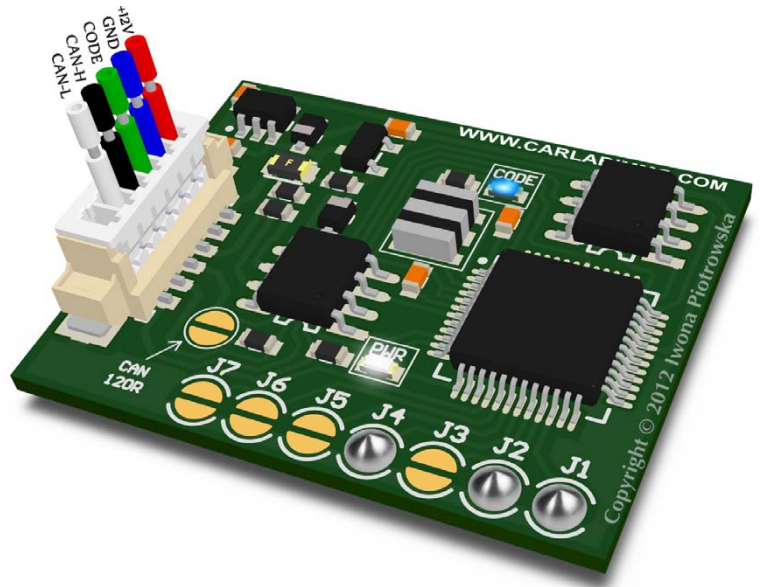| Power supply | red |
| GND | blue |
| Immo | green |

Mercedes CR without CAN infrared

**In Universal Julie Emulator
solder jumpers J1, J2 and J4**

Available as Universal Julie Emulator
program no. 26

USE

**INFRARED IMMO
with 12-pin module + 2-pin CAN
where only CAN L is connected (there is no CAN H).
Green and red LED flash in the mirror.**

Lucas 55 pins 1-socket ECU 2.2 Diesel
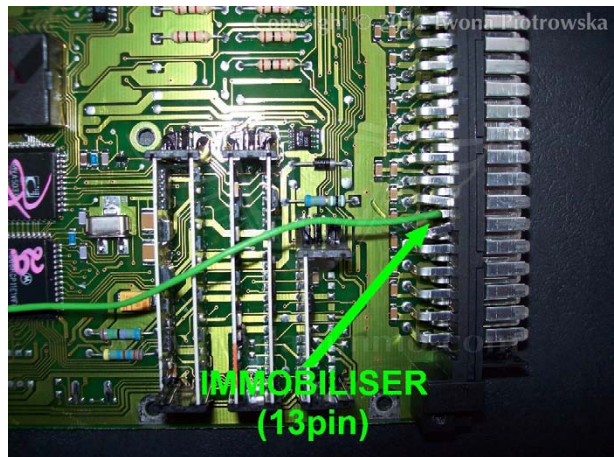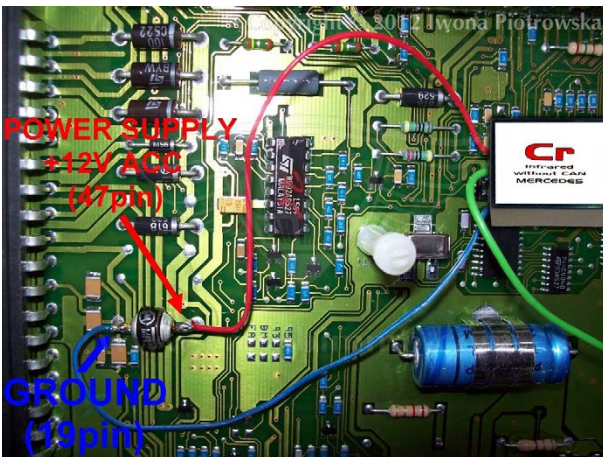
**SIEMENS hybrid ECU
1.8   2.0   2.3 gasoline**

**BOSCH hybrid ECU
2.0 gasoline**

www.carlabimmo.com

Lucas 55 pins 1-socket ECU 2.2 Diesel
Mercedes E-class W210

Connecting emulator to ECU

ACC	47 pin
GND	19 pin
Immo white with a green stripe	13 pin

Cut off pin 13 in the ECU and pins 5 and 6 in the immo module. Then, connect emulator. In the mirror and in the door handle area LEDs do not flash.

SIEMENS hybrid ECU
1.8   2.0   2.3 gasoline

Mercedes C-class W202   1.8 gasoline
SIEMENS hybrid ECU no. 018 545 41 32

Connect emulator instead of infrared immo with 12-pin module + 2-pin CAN,
which is located under the floor mat at the front of the passenger-side footwell.

GND and ACC in the 12-pin plug of
immobiliser:

ACC	9 pin
GND	1 pin
Immo	Connect it to 2 pin plug of immobiliser

Cut off pin 5 and 6 in immo module, then LEDs do not flash in the mirror.

Mercedes Vito 2.0 and 2.3 gasoline
SIEMENS hybrid ECU

2-socket ECU with vacuum hose,
9-pin immo, remote control locking and unlocking.

Connecting in place of original immobiliser

ACC	7 pin - black with grey strap
GND	2 pin - brown
Immo	5 pin - blue with violet strap

BOSCH hybrid ECU
2.0 gasoline

Mercedes C-class W202 2.0 gasoline
BOSCH hybrid ECU no. 0 261 200 614
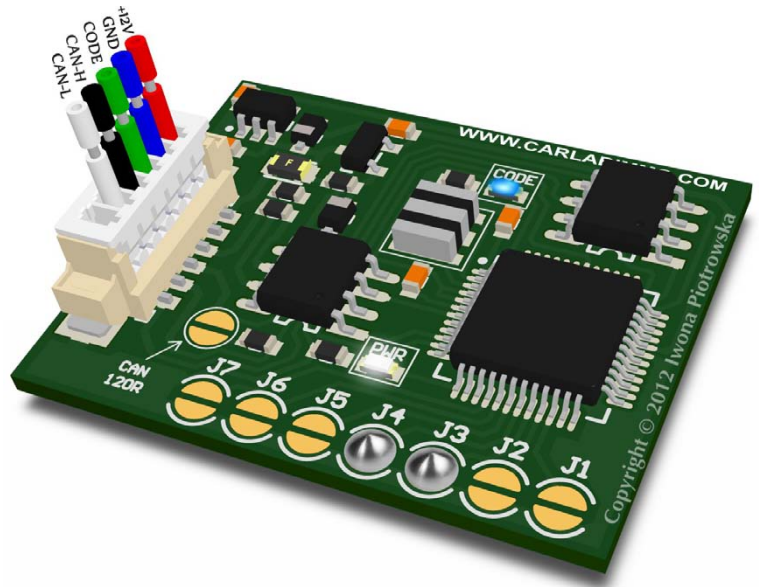
GND and ACC in the 12-pin plug of immobiliser

ACC	9 pin
GND	1 pin
Immo	Connect it to 2 pin plug of immobiliser

Cut off pin 5 and 6 in immo module, then LEDs do not flash in the mirror

Mercedes CR1 with CAN WSP

**In Universal Julie Emulator
solder jumpers J3 and J4**

Available as Universal Julie Emulator
program no. 27

USE

**Vito 2.2 Cdi
5-socket ECU**

**A-class 1.7 Cdi
5-socket ECU**

**EDC 1-socket ECU
2.5TD 2.9TD 3.0TD
with mechanical and electronic ignition switch**

Bosch ECU with HC11E9

**E-class Lucas 4-socket ECU
with mechanical and electronic ignition switch**

**A-class VDO MSM ECU
1.4 1.6 1.9 gasoline**

When emulator is connected, disconnect CAN from original immo!

A-class VDO MSM ECU
1.4 1.6 1.9 gasoline

Vito 2.2 Cdi 5-socket ECU

Vito 2.2 Cdi 5-socket ECU

In Mercedes Vito 2.2 Cdi, the starter does not turn, there is **START ERROR** on the instrument cluster

ECU is located on the passenger side

Connecting emulator to ECU

ACC	2.13 pin
GND	1.04 1.05 1.06 pin
CAN-L	2.12 pin
CAN-H	2.11 pin

Find **24C04** memory
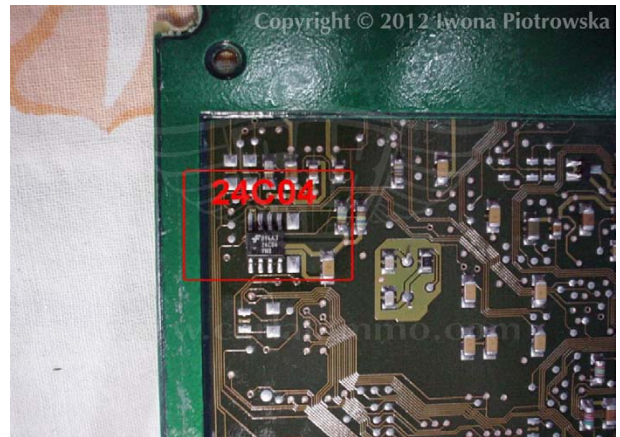
In address **1EE** to **1F9**, enter values **2A 4E 00 00 FF FF 00 9C D4 13 56 01**

Disconnect CAN from WSP!!!

**A-class 1.7 Cdi
5-socket ECU**
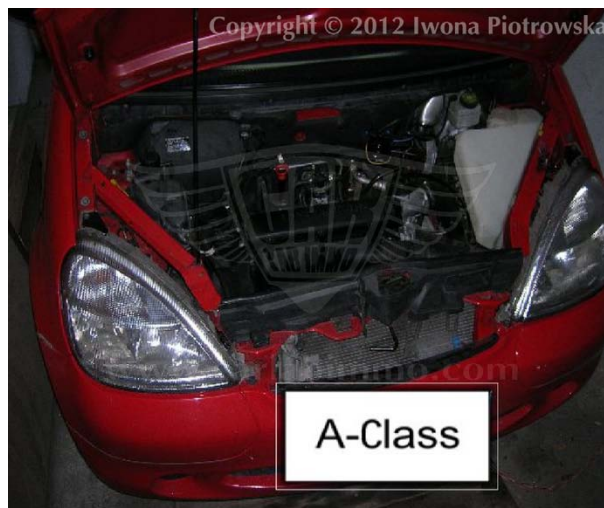
In Mercedes A-class 1.7 Cdi, the starter does not turn,
there is START ERROR on the instrument cluster

ECU is located under the bonnet on the left side behind the engine covered with plastic

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Connecting emulator to ECU

ACC	2.13 pin
GND	1.04 1.05 1.06 pin
CAN-L	2.12 pin
CAN-H	2.11 pin

Find **24C04** memory

In the address **1EE** to **1F9** enter values **2A 4E 00 00 FF FF 00 9C D4 13 56 01**

Disconnect CAN from WSP!!!

EDC 1-socket ECU
2.5TD 2.9TD 3.0TD
with mechanical and electronic ignition switch

C-class 2.5 TD
Sprinter 2.9 TD
E-class 3.0 TD

In early 1-socket ECU types, you need to find **24C02** memory marked as **B58** or **24C04** memory

In address **38** and **39** write **2A 4E** values and
in address **3F** to **42** write **9C D4 13 56** values

Connecting emulator to EDC 1-socket ECU

CAN H and CAN L from the choke.
GND and power from diode.

If there are problems to start the car, add ACC onto pin 13 of ECU
(take it from second leg of diode). Then, cut off pin 13 from the ECU plug

Disconnect CAN from WSP!!!

You can buy our products and obtain technical support from our distributor. Find a
distributor near you by clicking on the link: *www.carlabimmo.com/our-partners*

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Bosch ECU with HC11E9

There is Motorola **4E28B HC11E9 52PLCC** in ECU
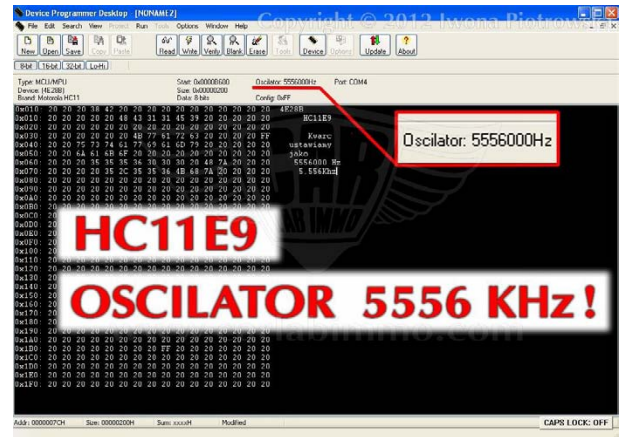
Before reading content, set oscillator at 5556000Hz!

1ˢᵗ CHANGE
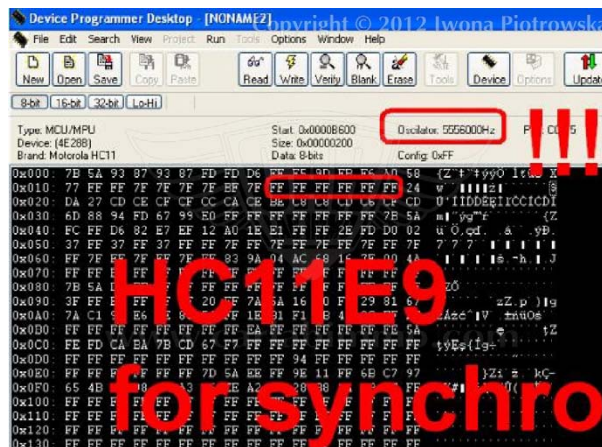
In addresses from **019** to **01E** (ETL 619 to 61E), write **FF** values

2nd CHANGE
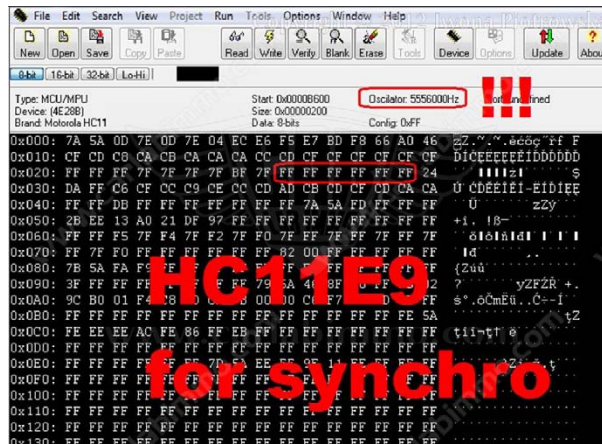
In addresses from **029** to **02E** write **FF** values

Connecting emulator to ECU
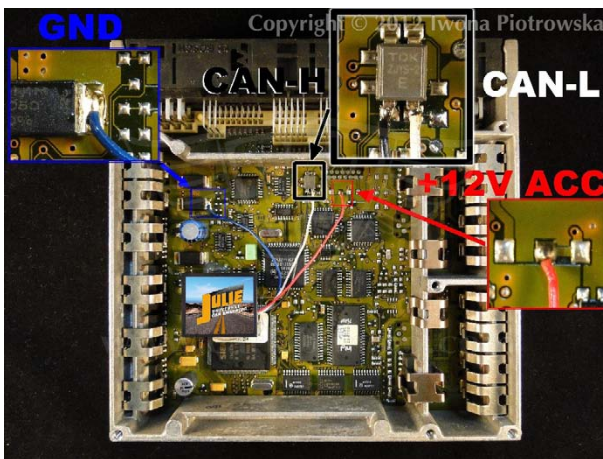
+12V ACC	A2 pin
GND	A3 pin
CAN-L	D12 pin
CAN-H	D11 pin

After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

**E-class Lucas 4-socket ECU
with mechanical and electronic ignition switch**

Mercedes E-class 2.0 diesel 1996
Lucas A0195459432 ed013 sw25.96 fd30.96

ECU is located in the engine compartment on the passenger side

Motorola **HC11KW1** quartz **8MHz** – connection of **X-Prog** programmer to Motorola
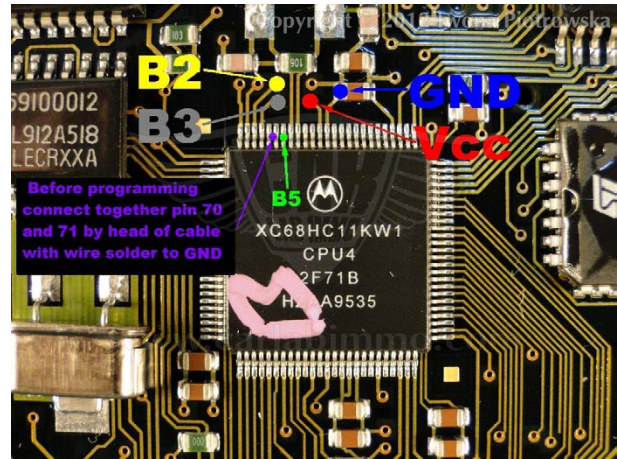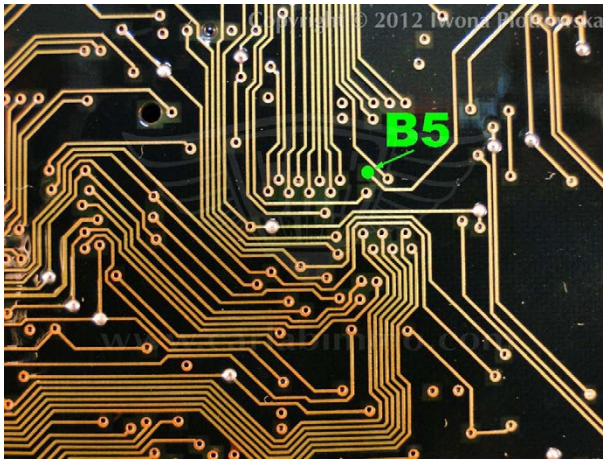
Before a getting connection to processor you have to connect pin 70 and 71 together with a needle.
Solder the wire to the needle that you then connect to GND.

pin 63	VSS ground	GND
pin 64	VDD +5V	A3 pin
pin 69	reset	B5
pin 70	Mod B to GND	B4
pin 71	Mod A to GND	GND
pin 72	RXT	B3
pin 73	TXD	B2

Change to **HC11KW1** processor
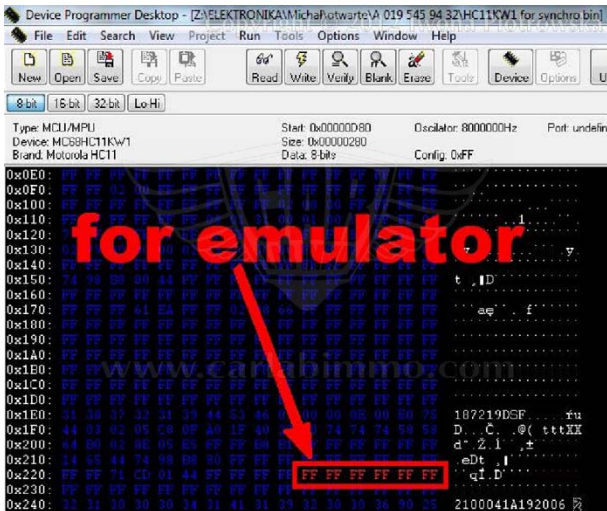
In address from **22A** to **22F** write **FF** value

Connecting emulator to ECU
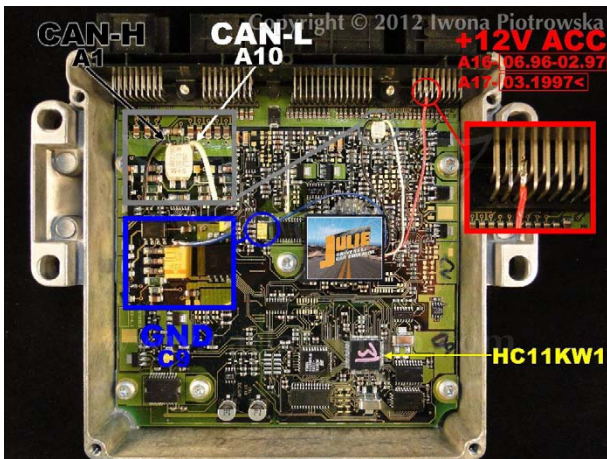
+12V ACC A16 pin

GND C9 pin

CAN-L A10 pin

CAN-H A1 pin

After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

Disconnect CAN from WSP!!!

A-class VDO MSM ECU
1.4 1.6 1.9 gasoline

ECU is located on the air delivery pipe together with with Air Mass Flow Sensor

Connecting emulator to ECU

+12V ACC	red
GND	blue
CAN-L	white
CAN-H	black

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To read and make changes to memory, use **Wellon** programmer
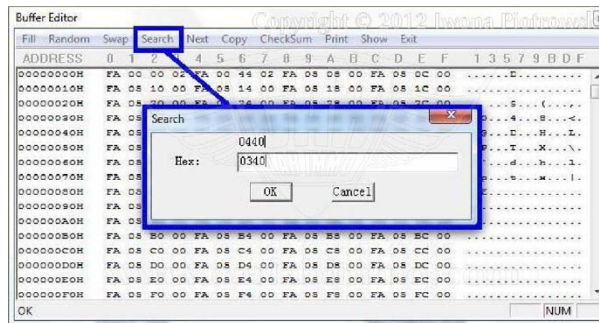
Once **29F200** (44pin) flash memory is read, write **03 40** (or 04 40) value in search window

All **03 40** (or 04 40) values which you will find under chassis number, change into **03 01** (or 04 31)
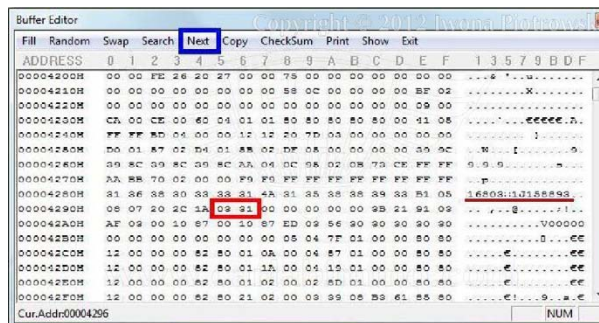
After soldering, you carry out personalisation with the **Star Diagnosis**.

Disconnect CAN from WSP!!!

Mercedes CR1 with CAN EZS

**In Universal Julie Emulator
solder jumpers J1, J2, J3, J4 and J5**

Available as Universal Julie
Emulator program no. 27

USE
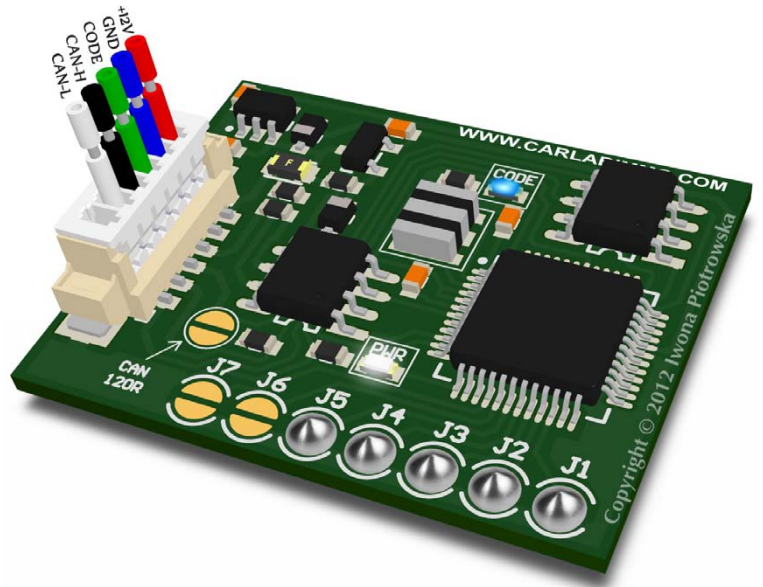
**Mercedes 2-socket (white) VDO ECU
with memory 24C02**

Find **24C02** eeprom in ECU
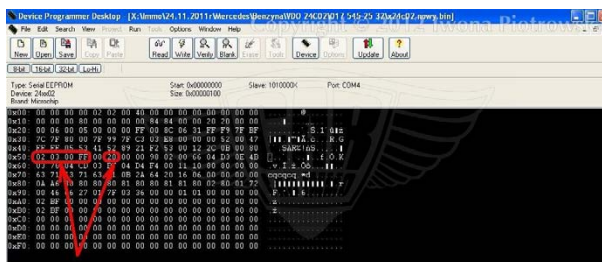
FOR CODING

In the addresses from **050** to **053** write **02 03 00 FF** values,
and in address **055** write **20** value in **24C02** eeprom
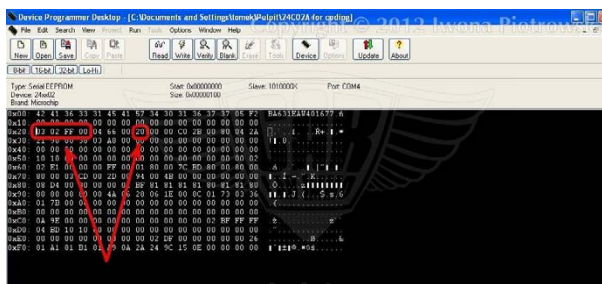
FOR CODING

or in addresses from **020** to **023** write **02 03 00 FF** values,
and in address **027** write **20** value in **24C02** eeprom

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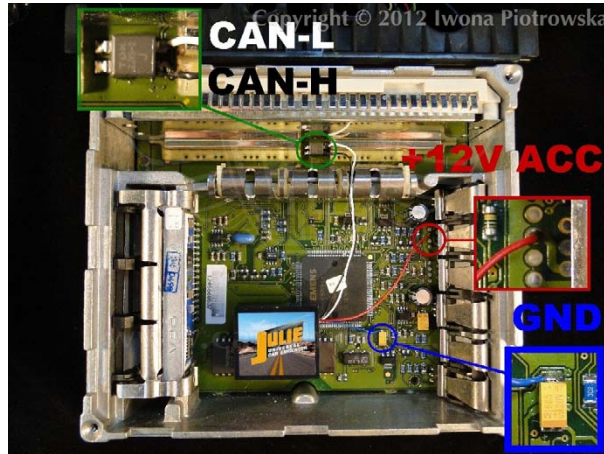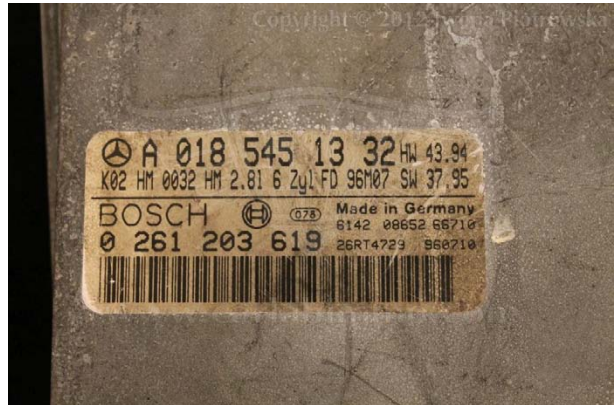
Connecting emulator to ECU

+12V ACC	39 pin
GND	33 pin
CAN-L	from choke
CAN-H	from choke

After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

Mercedes CR1 with CAN infrared

**In Universal Julie Emulator
solder jumpers J6**

Available as Universal Julie Emulator
program no. 29

USE
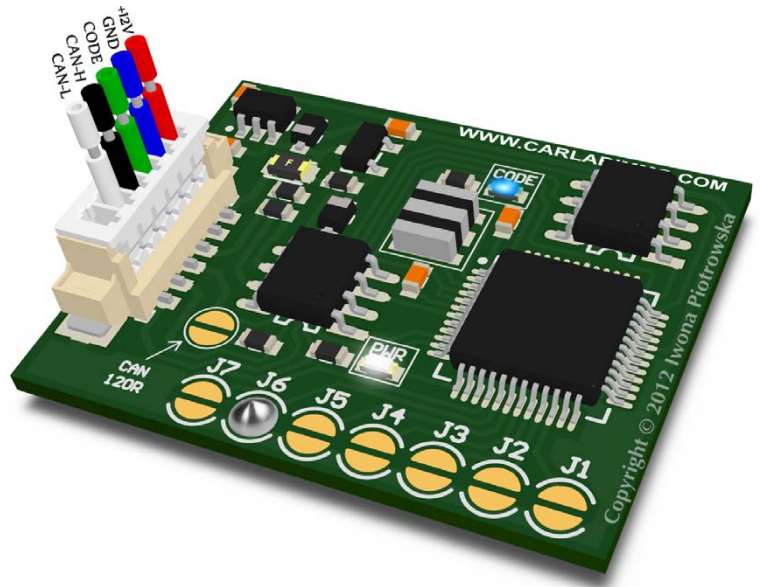
**Mercedes 2-socket (black) VDO ECU
with X24C01 memory**

**Mercedes 2-socket (yellow) VDO ECU
with X24C02 memory**

**Mercedes 2-socket Bosch ECU
with B58 (24LC02) memory**

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**Mercedes 2-socket (black) VDO ECU
with X24C01 memory**

Find **X24C01** eeprom
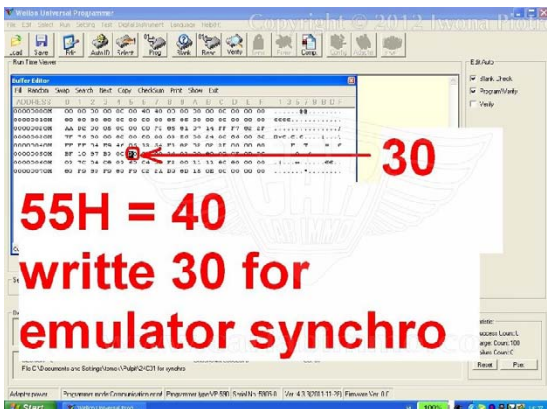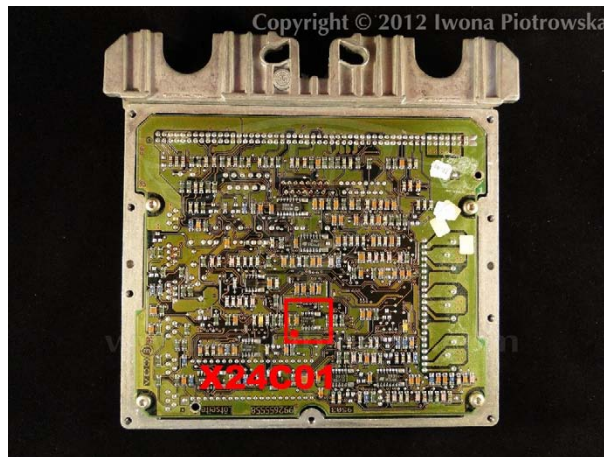

In address **055** write 30 value

Connecting emulator to ECU

After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

Mercedes 2-socket (yellow) VDO ECU
with X24C02 memory

In the ECU find **X24C02** eeprom
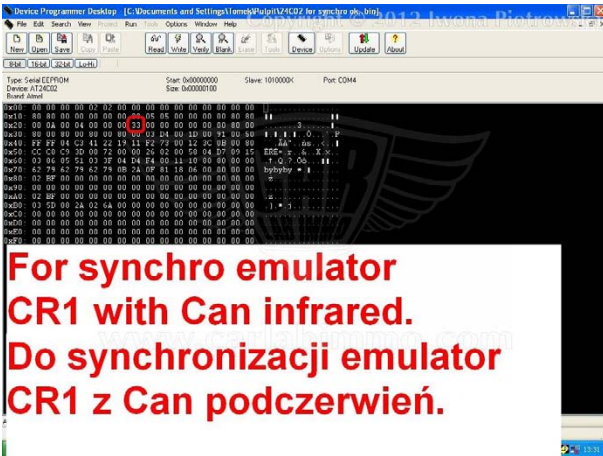
In address **027** write **33** value in **X24C02** eeprom

Connecting emulator to ECU

After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

Mercedes 2-socket Bosch ECU
with B58 (24LC02) memory

Before the eeprom's change **read code number from the ECU** - see photos below

To program the **24LC02** microchip use the X-prog programmer and then use the Julie emulator
with J6 jumper solder. At last make the synchro with Starr Diagnosis

In the ECU find **B58 (24LC02)** eeprom
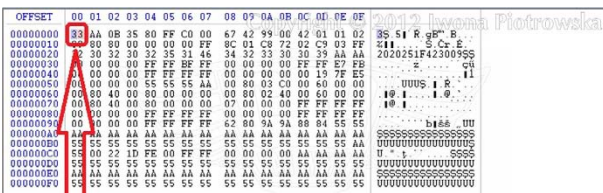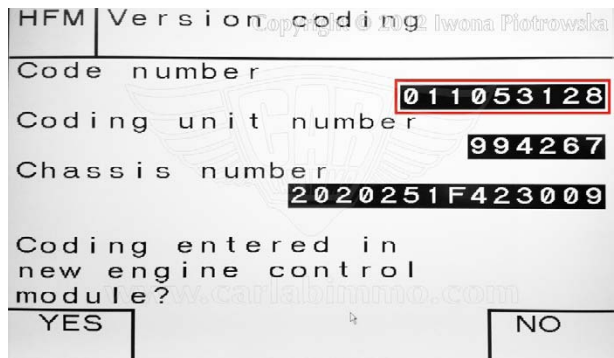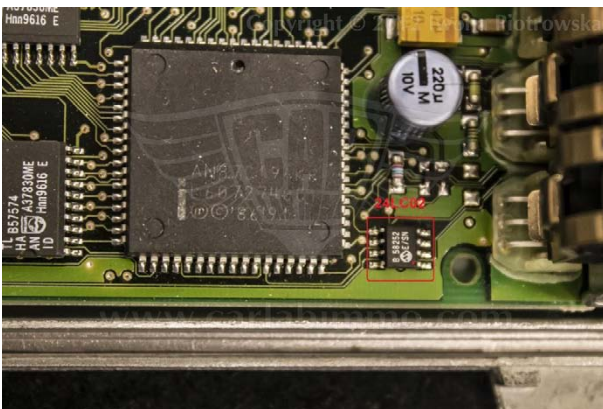
In address **01A** write **33** value in
24LC02 eeprom

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Connecting emulator to ECU

After connecting the emulator, you need to make personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

Mercedes CR2 with CAN WSP

**In Universal Julie Emulator
solder jumpers J1, J3 and J4**

Available as Universal Julie Emulator
program no. 30
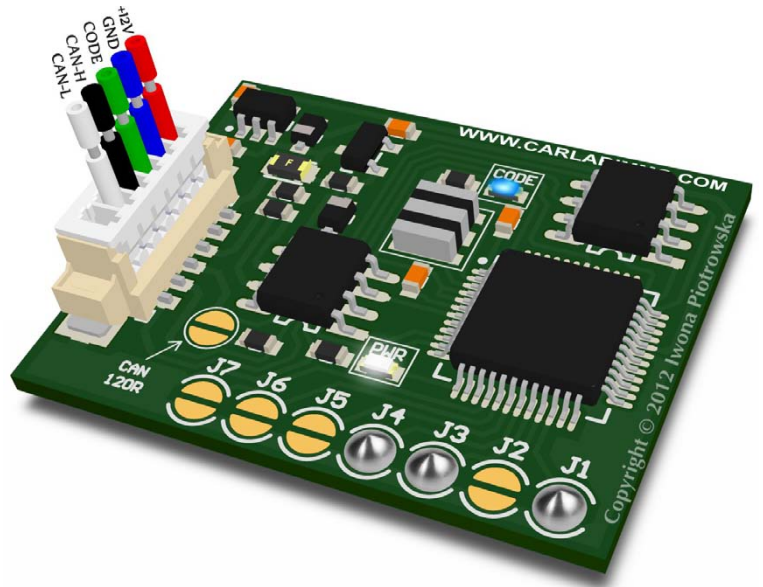
USE

**Sprinter 2.2 Cdi and 2.7 Cdi
ML 2.7 Cdi 5-socket – automatic start
Also suitable for 2.7 and 3.2 with electronic ignition switch – automatic start**

CUT OFF
CAN-H and CAN-L
(pin 5 and 6)
FROM PLUG TO
MODULE WSP!!
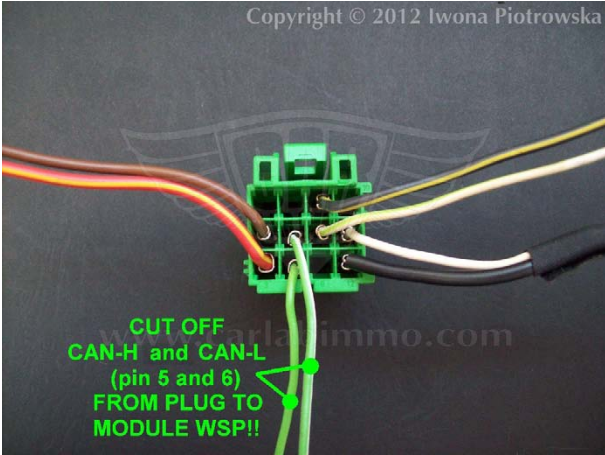
When emulator is connected, disconnect
CAN from original immo!

Connecting emulator to ECU

GND
1.04, 1.05, 1.06

+12V ACC
2.13

CAN-L
2.12

CAN-H
2.11
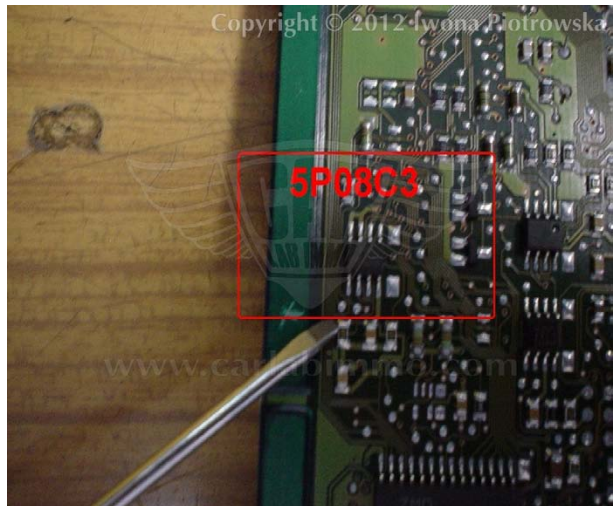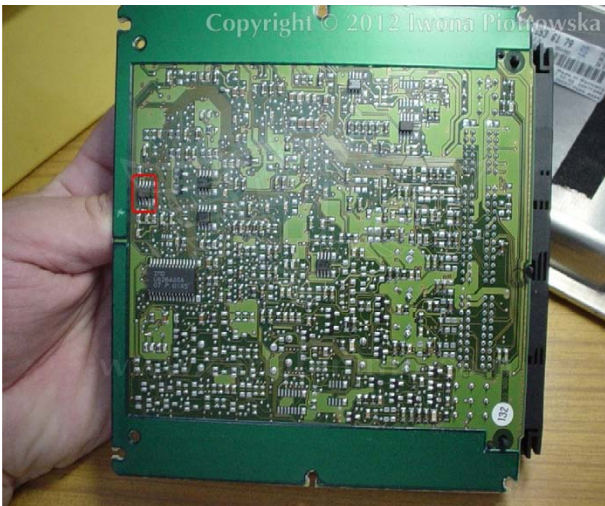
Find **5P08C3** memory
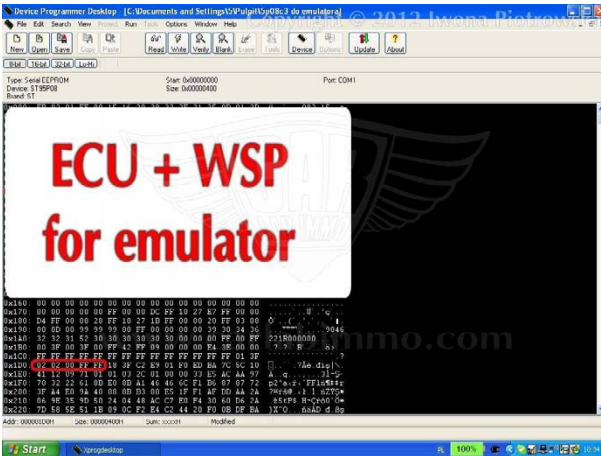
5P08C3

In addresses from
1D0 to **1D4** write **02 02 00 FF FF** values
that will start the car automatically

If you have an electronic ignition switch,
the following changes should be made to **5P08C3** memory
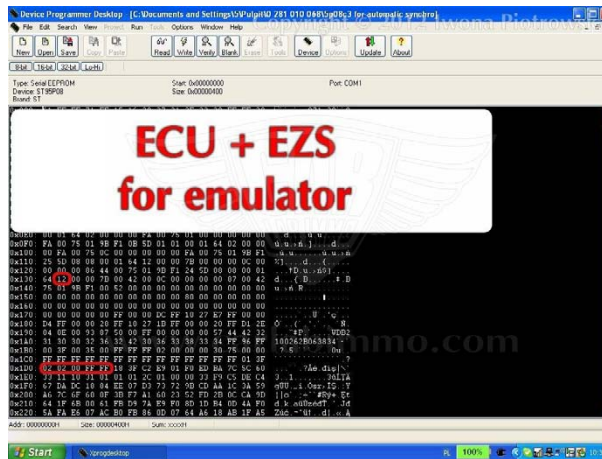
In address **131** write **12** value and from **1D0** to **1D4**
write **02 02 00 FF FF** values

Mercedes ESL – steering wheel column lock emulator

In Universal Julie Emulator solder jumpers J3 and J5

Available as Universal Julie Emulator program no. 31
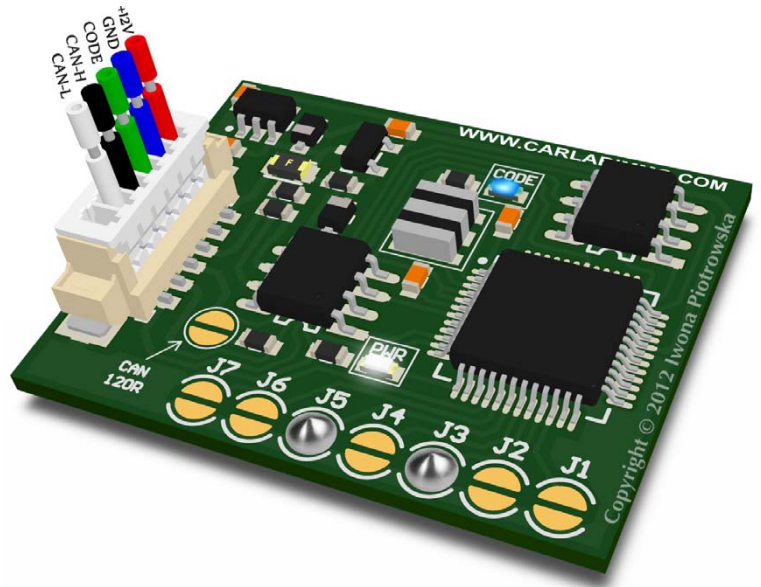
Warning!!!

Due to possible construction changes of cars, check signals with multimeter in the ECU plug before connecting the device.

It does not replace the new steering locks with NEC!

Type 1 ESL
W202, W208, W210

Type 2 ESL
W203, W209, W211, Vito 639, W906 (Sprinter II, VW Crafter)

It works with ignition switches numbered

208 545 00 08	208 545 01 08
208 545 02 08	208 545 03 08
210 545 00 08	210 545 01 08
210 545 02 08	210 545 03 08

639 545 05 08

It self-learns code of the electronic ignition–plug and play

Connecting to ESL:
Mercedes-Benz W202, W208, W210
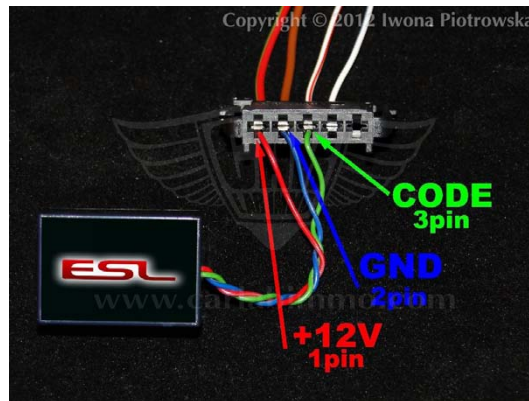
Connecting to ESL:
Mercedes-Benz W209, W211
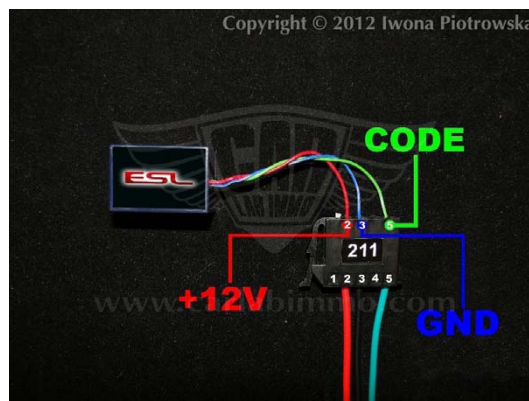
Connecting to ESL:
Mercedes-Benz W203
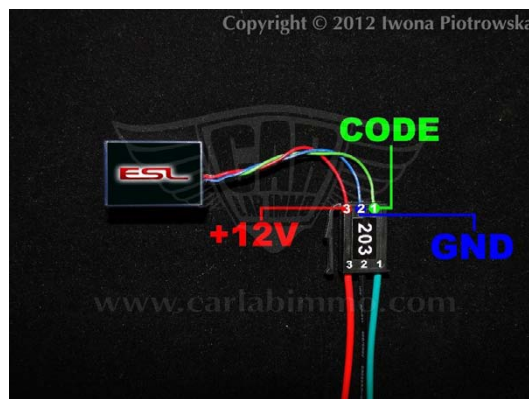
Connecting to ESL:
Mercedes-Benz Vito 639
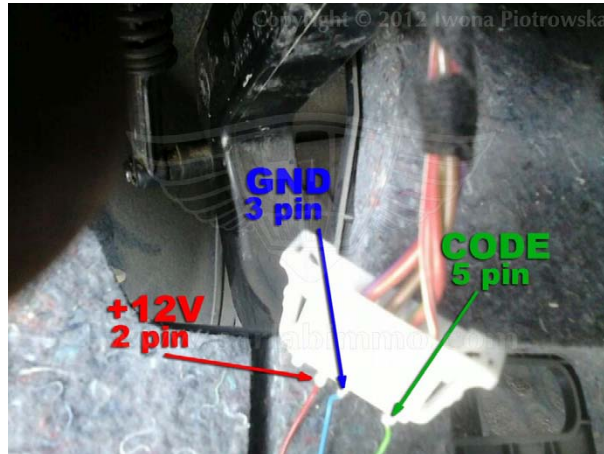
Mercedes ESL 2 – steering wheel column lock emulator

In Universal Julie Emulator solder jumpers J2, J5 and J6

Available as Universal Julie Emulator program no. 32
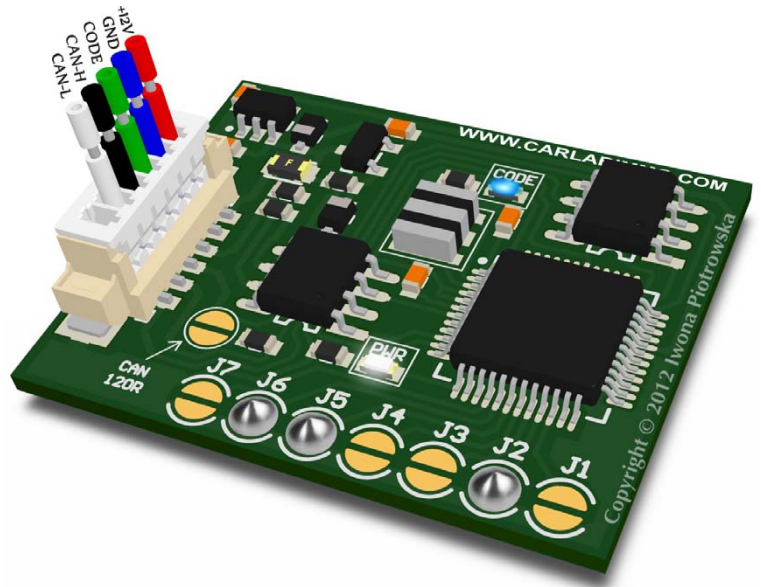
Warning!!!

Due to possible construction changes of cars, check signals with multimeter in the ECU plug before connecting the device.

ESL 2 emulator enables you to verify correct functioning of EZS

It works with ignition switches numbered

A 906 545 01 08
A 906 545 64 08
A 906 545 49 08
A 906 545 40 08

639 545 01 08
639 545 05 08
203 545 05 08
203 545 01 08
203 545 03 08

208 545 00 08	208 545 01 08
208 545 02 08	208 545 03 08
210 545 00 08	210 545 01 08
210 545 02 08	210 545 03 08

It self-learns code of the electronic ignition–plug and play

ESL
W906 (Sprinter II, VW Crafter), W639, W211, W209, W203

ESL
W202, W208, W210

Connecting to ESL:
W906 (Sprinter II, VW Crafter), W639, W211, W209, W203

Attention!
If the ESL plug is missing +12V ACC, then you connect the emulator to +12V VCC. For this purpose, it is best to build a reset button at one point of +12V VCC wire.

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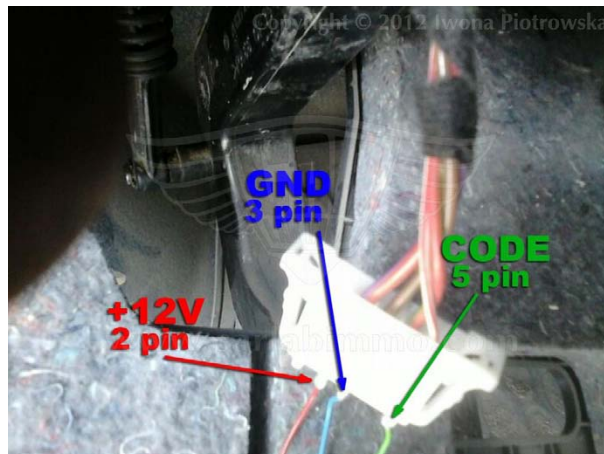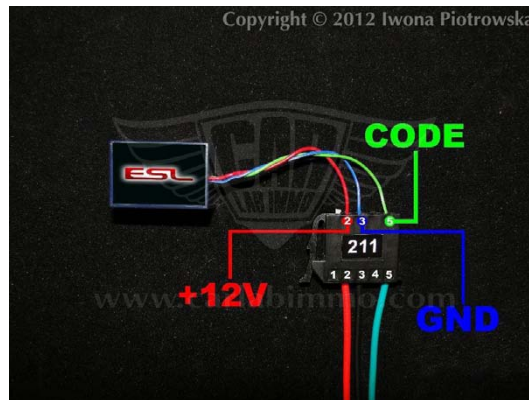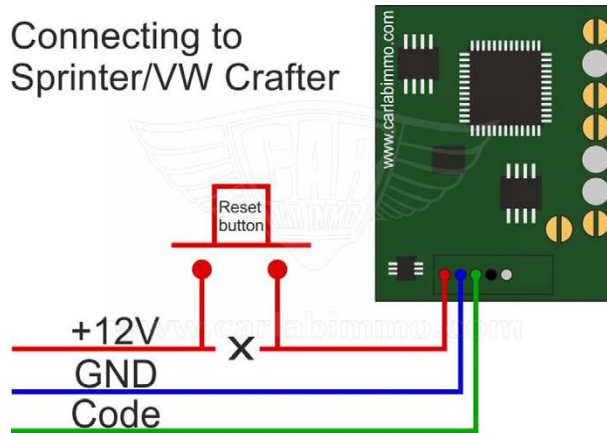
Connecting to ESL:
Mercedes-Benz W203
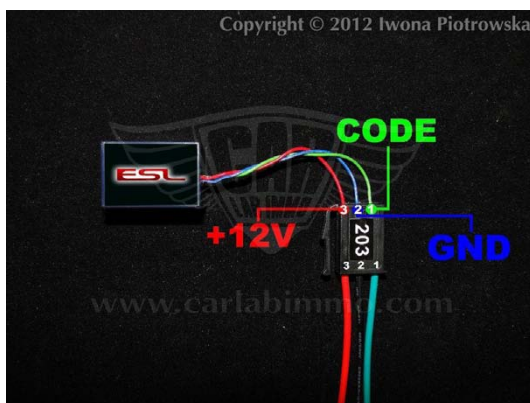
Connecting to ESL:
Mercedes-Benz W202, W208, W210
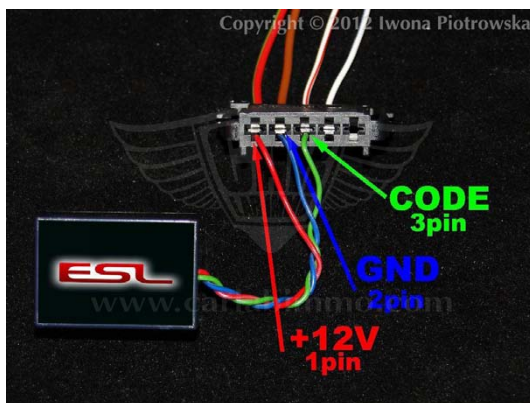
Nissan NATS 4 and 5

**In Universal Julie Emulator
solder jumpers J2, J3 and J4**

Available as Universal Julie Emulator
program no. 33
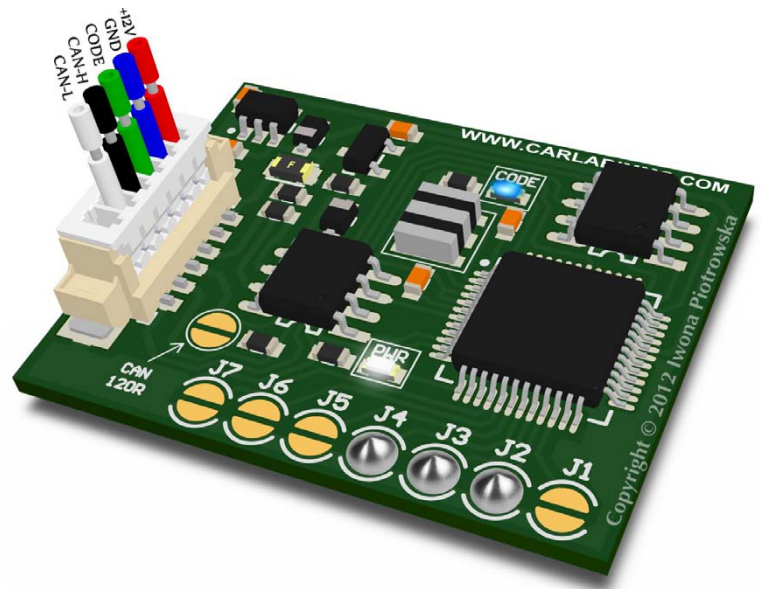
USE

ECU from 2000 to 2002 - NATS 4 and 5 immo

2.2 2.7 diesel 5-socket ECU with 24C04 memory

1.5 gasoline Hitachi MEC with 93C46 and 93C56 memory

1.8 and 2.0 gasoline Hitachi MEC with 93C56 memory

1.4 gasoline Bosch with 24LC02 memory

Models: Almera, Almera Tino, Micra, Primera, Terrano

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2.2 2.7 diesel 5-socket ECU with 24C04 memory
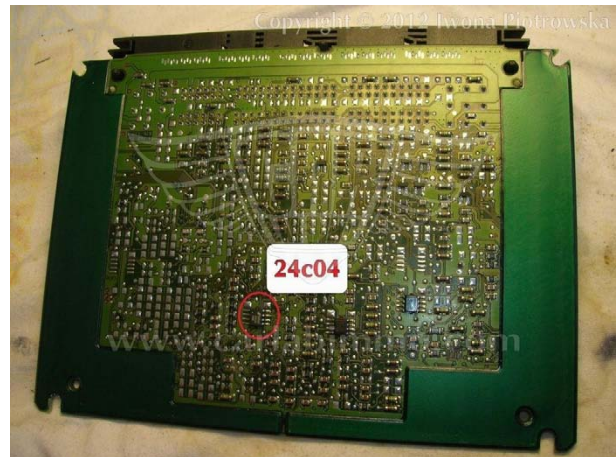
Find **24C04** eeprom memory
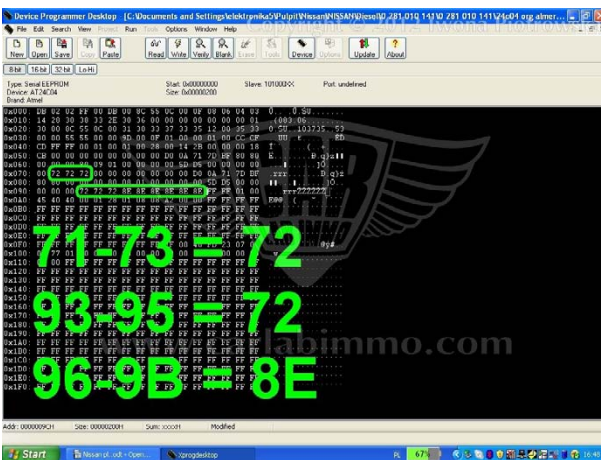
In addresses
from **071** to **073** write **72** value
from **093** to **095** write **72** value
from **096** to **09B** write **8E** value

Connecting emulator to ECU

You can buy our products and obtain technical support from our distributor. Find a distributor near you by clicking on the link: **www.carlabimmo.com/our-partners**
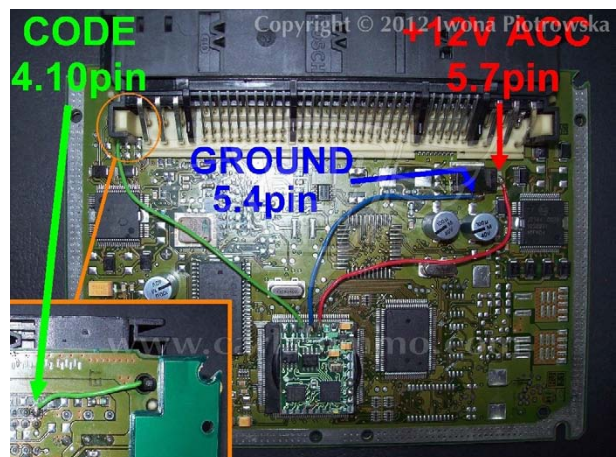
2.7 diesel 5-socket ECU with 24C04 memory
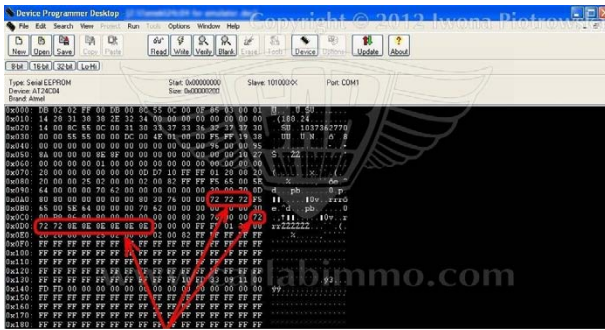
In addresses
from **0AC** to **AE** write **72** values
in **0CF** write **72** value
from **0D0** to **0D7** write **72 72 8E 8E 8E
8E 8E 8E** values

Connecting emulator to ECU
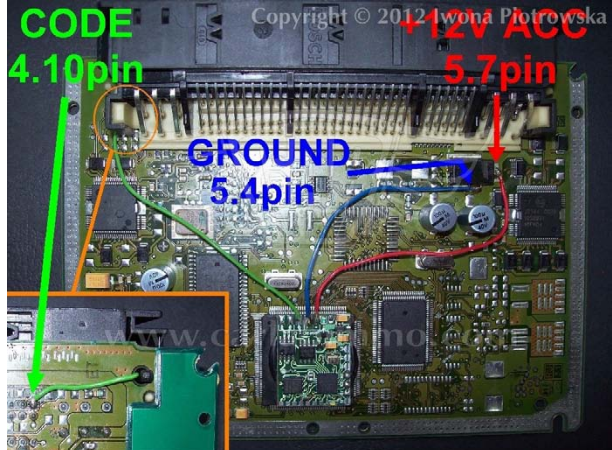
1.5 gasoline Hitachi MEC with 93C46 memory
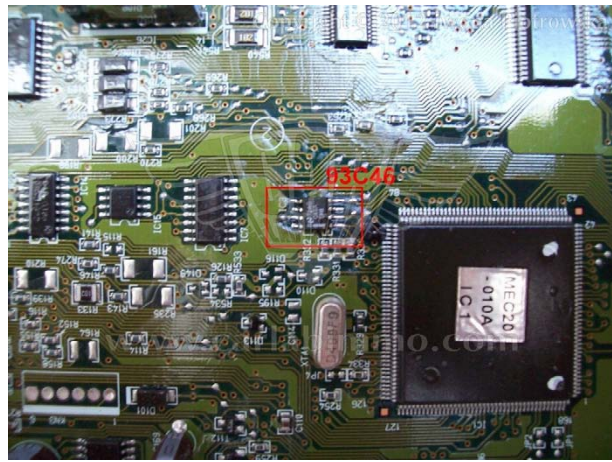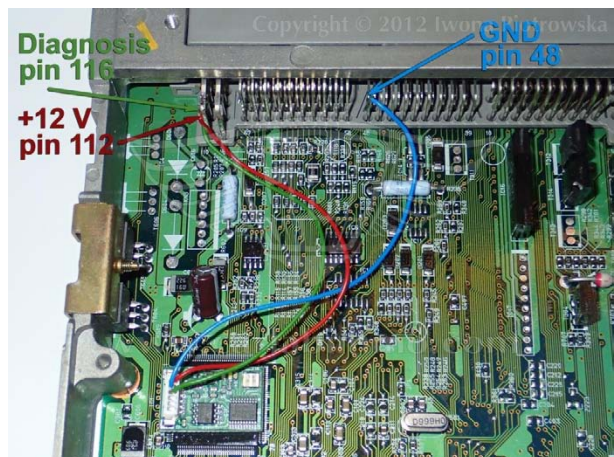

Find **93C46** eeprom memory
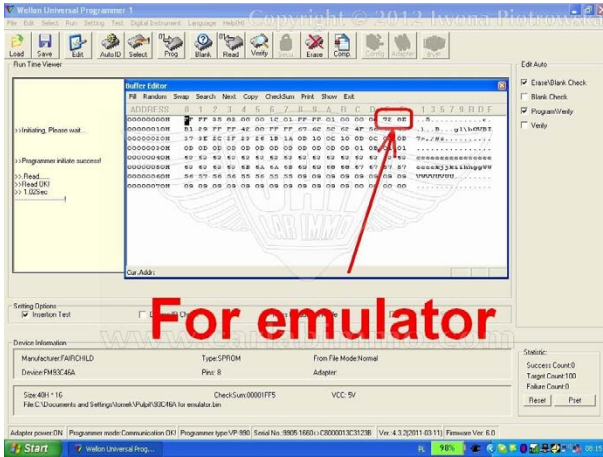
In address
from **00E** to **00F** write **72 8E** or **8E 72**
values

Connecting emulator to ECU

+12V ACC	43 pin
GND	108 pin
Code	116 pin cut off from the plug in ECU
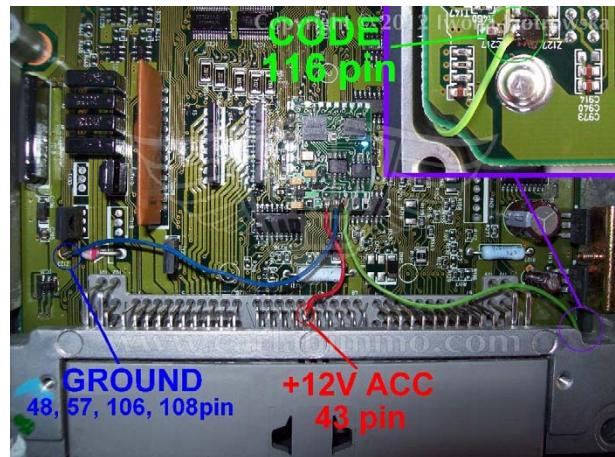
1.5 1.8 2.0 gasoline Hitachi MEC with 93C56 memory

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Find **93C56** eeprom memory
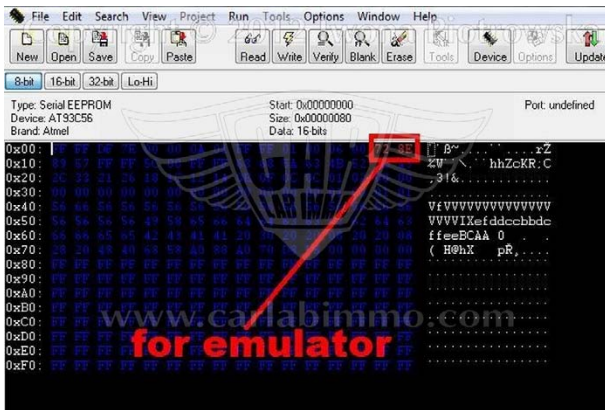
In address
from **00E** to **00F** write **72 8E** or **8E 72**
values

Connecting emulator to ECU

+12V ACC	43 pin
GND	108 pin
Code	116 pin cut off from the plug in ECU

**Connecting emulator to ECU for Nissan Primera 2001
2.0 16V 140PS**

1.4 gasoline Bosch ECU with 24LC02 memory

Find **B58253** eeprom memory - read as **24C02**
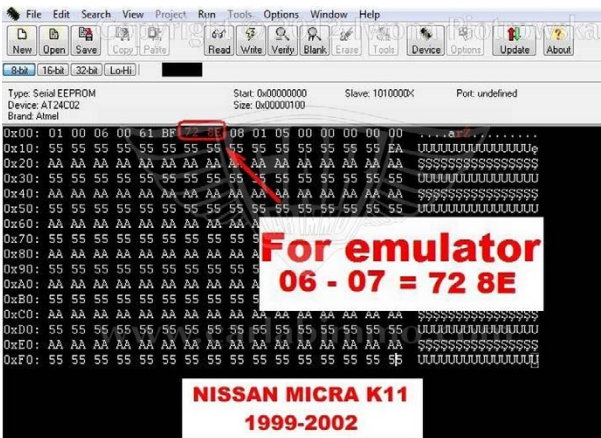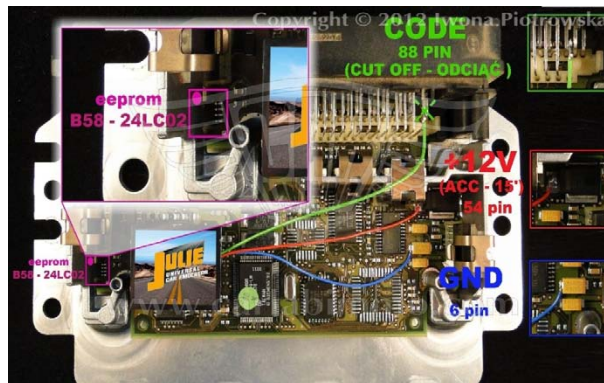
In address
from **06** to **07** write **72 8E** values

BLAUPUNKT 9345 radio with 25160 memory

Upload memory content (available HERE) and connect up the radio, wait out the countdown of 50 seconds. Then when CODE shows up please enter code **8361** and confirm with UP ARROW button

Important!
When you enter incorrect code, it will cause the radio lock to turn on for 50 minutes
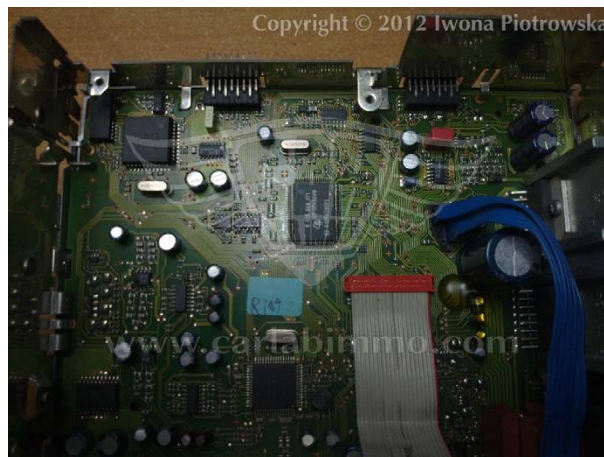
CLARION PN-1628M radio with f93C46 memory

Upload memory content (available HERE) and connect up the radio, wait out the countdown of 50 seconds. Then when CODE shows up please enter code **1111** and confirm with UP ARROW button.

Opel immo with HC05

**In Universal Julie Emulator
solder jumpers J1 J2, J3 and J4**

Available as Universal Julie Emulator
program no. 34
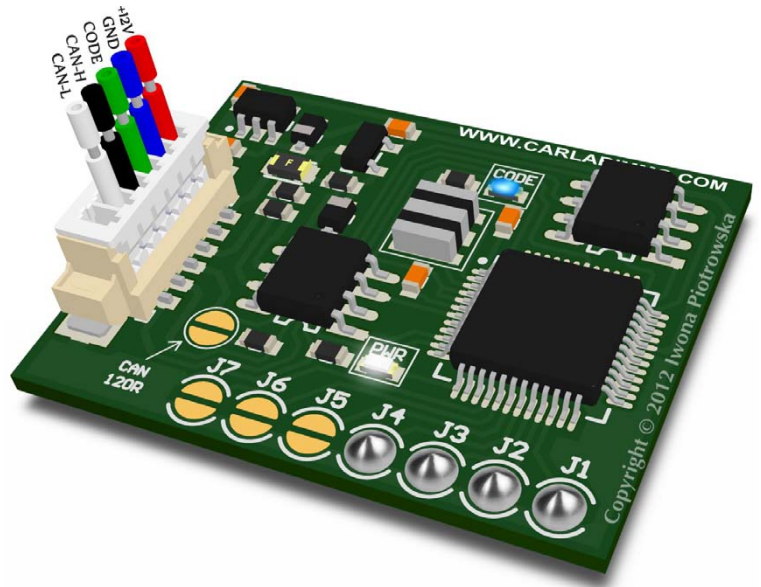
USE

1.2 and 1.4 gasoline 2-socket (black) ECU with Motorola HC11E20 processor

2.0 2.2 and 2.5 gasoline with 24C02 eeprom memory

1.2 and 1.4 gasoline 2-socket (black) ECU with Motorola HC11E20 processor
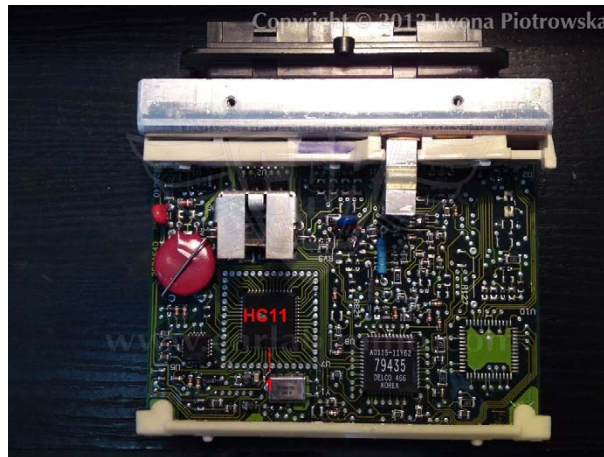
Find Motorola **HC11E20** processor
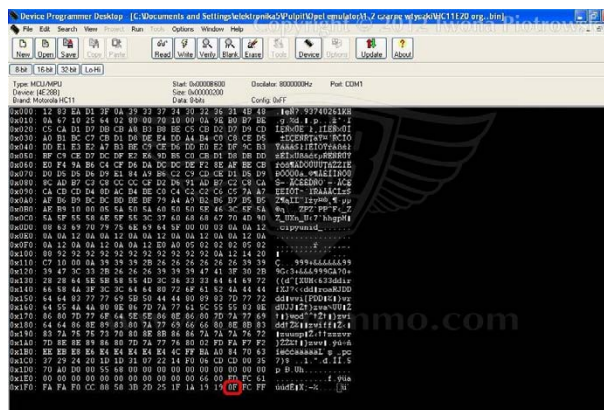
In address **1FD** write **0F** value
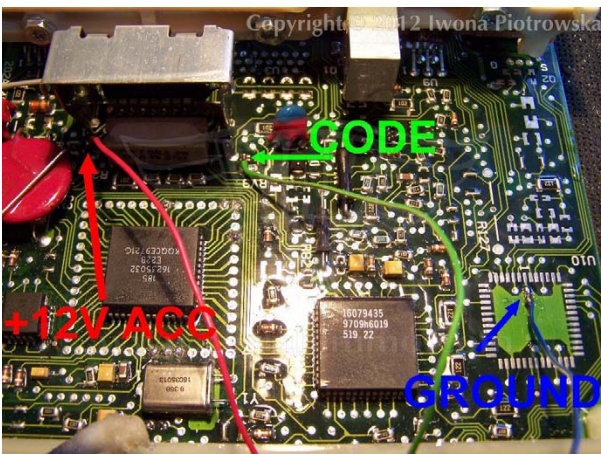
Connecting emulator to ECU

Disconnect immo and connect pin 6 with 7 in the wiring of immo plug to eliminate troubles with speed signal

2.0 2.2 and 2.5 gasoline with 24C02 eeprom memory

Find **24C02** eeprom memory
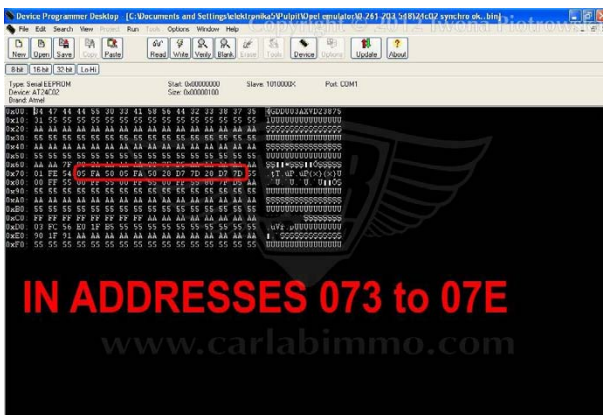
In addresses from **073** to **07E** write
05 FA 50 05 FA 50 28 D7 7D 28 D7 7D
values
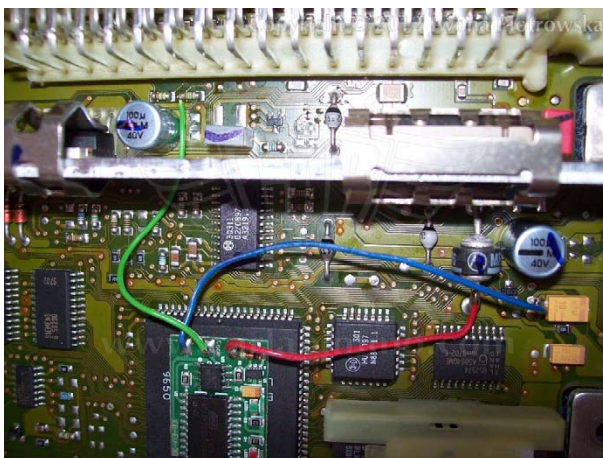
Connecting emulator to ECU
(2.0 2.2 gasoline)

+12V ACC 37 pin

GND   2 pin

Immo   9 pin

Disconnect immo and connect pin 6 with 7 in the wiring of immo plug to eliminate troubles with speed signal
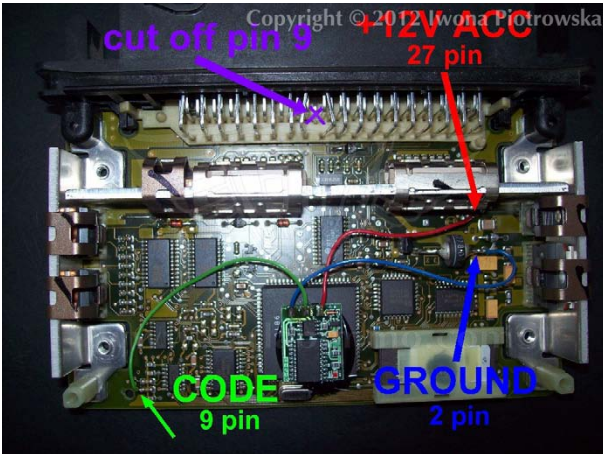
Connecting emulator to ECU
(2.5 gasoline)

+12V ACC	27 pin
GND	2 pin
Immo	9 pin

Disconnect immo and connect pin 6 with 7 in the wiring of immo plug to eliminate troubles with speed signal

Renault with CAN

**In Universal Julie Emulator
solder jumpers J2 and J6**

Available as Universal Julie Emulator
program no. 34

*If you have older version without ESL2
programme, you have to solder jumpers J1, J2
and J6*
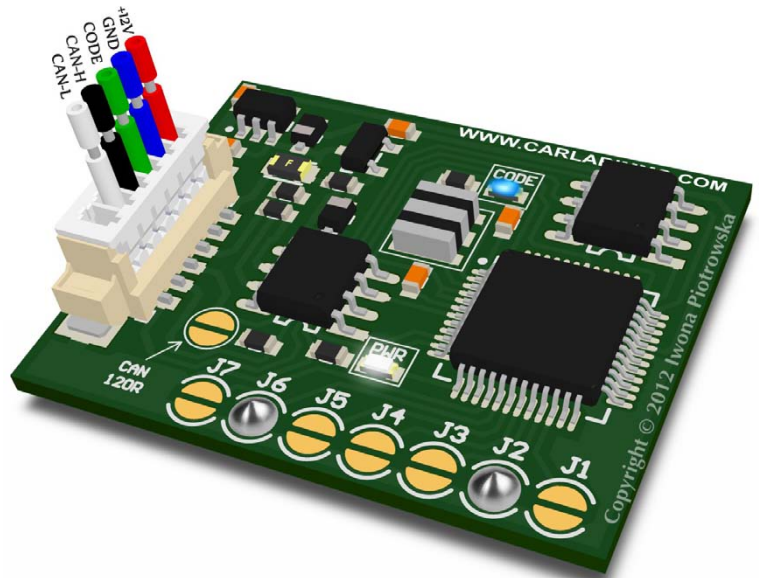
USE

**SIRIUS 32 with CAN
SIRIUS 34 with CAN
3-socket DELPHI ECU with CAN - 95080 memory
3-socket BOSCH EDC15 ECU with CAN - 5P08C3 memory
EMS 3132 with CAN
EMS 3134 with CAN**

Disconnect plug from immo (UCH)!
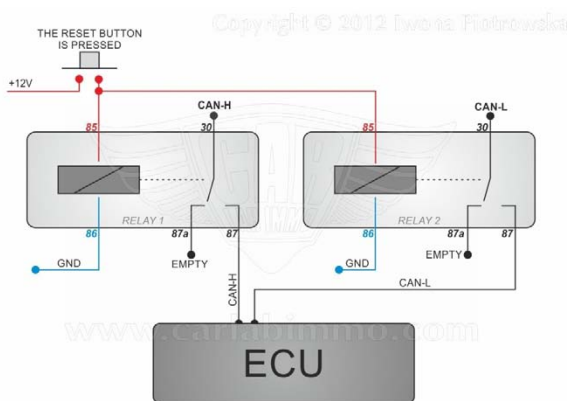
Attention!

If your car doesn't start use reset button
and two relays like the picture on the
left.

**Firstly you need to press the reset
button. Secondly turn the ignition on.
Thirdly release the reset button and
now you can start the car.**

SIRIUS 32 with CAN
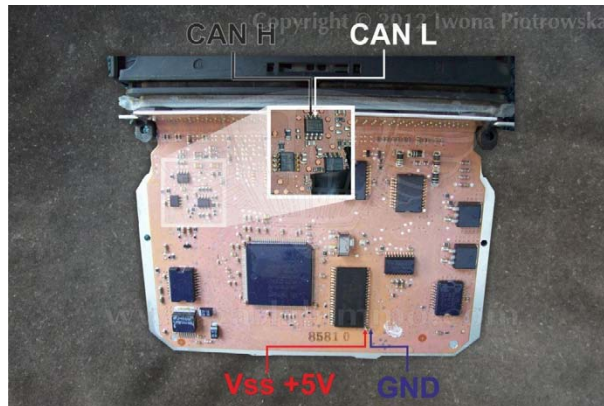
Find **29F200** or **29F400** flash memory in ECU
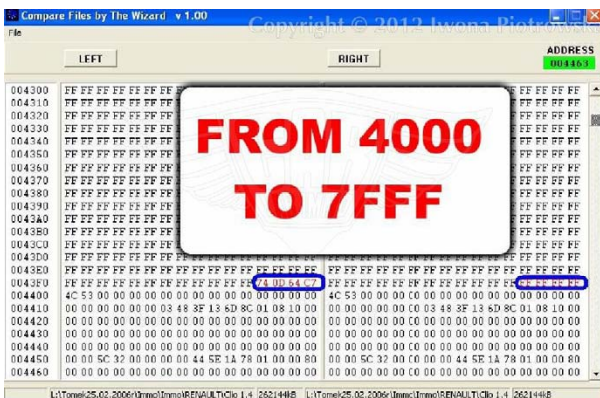
In the addresses from **4000** to **7FFF**, find all **64 C7** or **54 D7** values and change these values and two units before them into **FF FF FF FF**
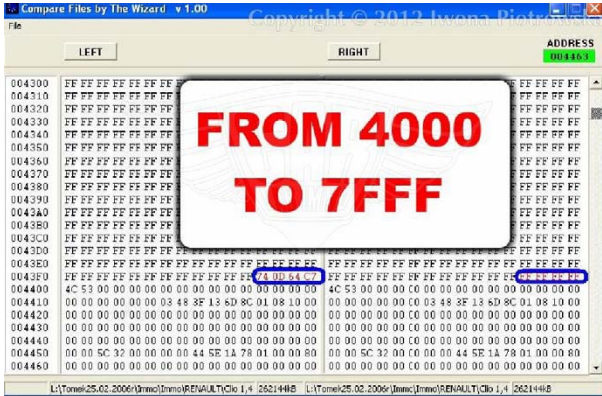
Repeat it in the whole map from **4000** to **7FFF**!!!

In order to start the starter you need to join two pins of starter's relay!

SIRIUS 34 with CAN
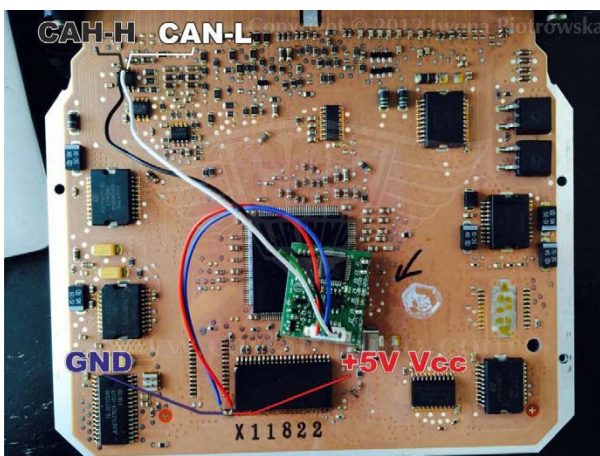
CAN H — 8th leg of transducer
CAN L — 7th leg of transducer

www.carlabimmo.com

In the addresses from **4000** to **7FFF**, find all **64 C7** or **54 D7** values and change these values and two units before them into **FF FF FF FF**

Repeat it in the whole map from **4000** to **7FFF!!!**

In order to start the starter you need to join two pins of starter's relay!

3-socket DELPHI ECU with CAN - 95080 memory

Connecting emulator to ECU

Find **95080** memory
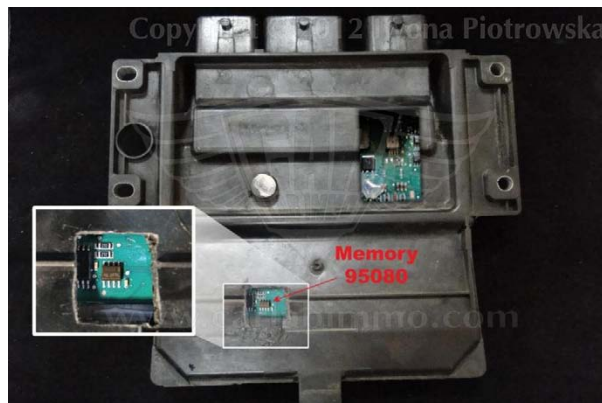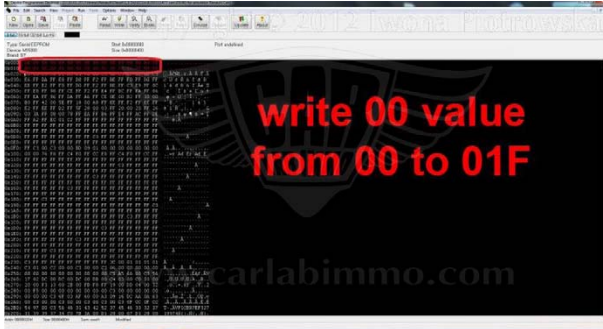
In address from **00** to **01F** write **00** value

3-socket BOSCH EDC15 ECU with CAN - 5P08C3 memory

Connecting emulator to ECU
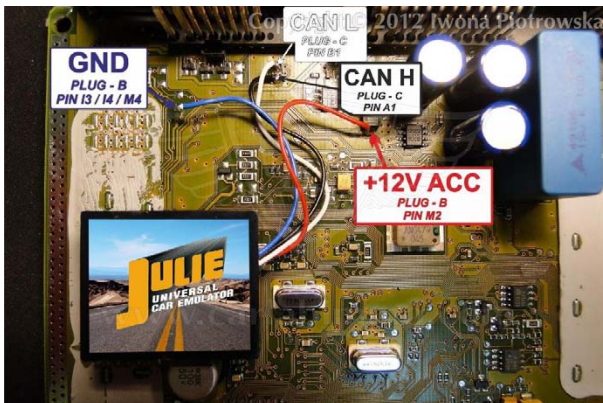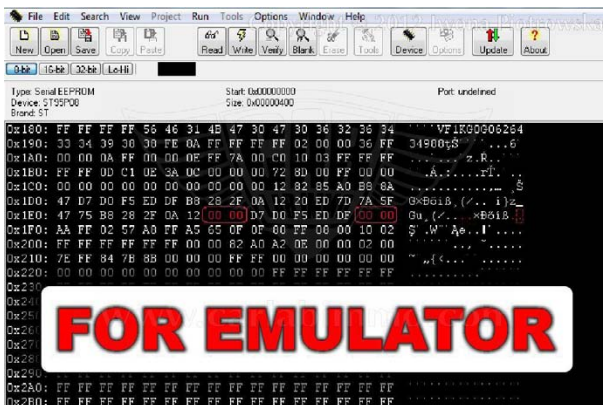
Find **5P08C3** memory

In address from **1E7** to **1E8**
and from **1EE** to **1EF** write **00 00** values

Other EDC15 ECUs

Connecting emulator to ECU
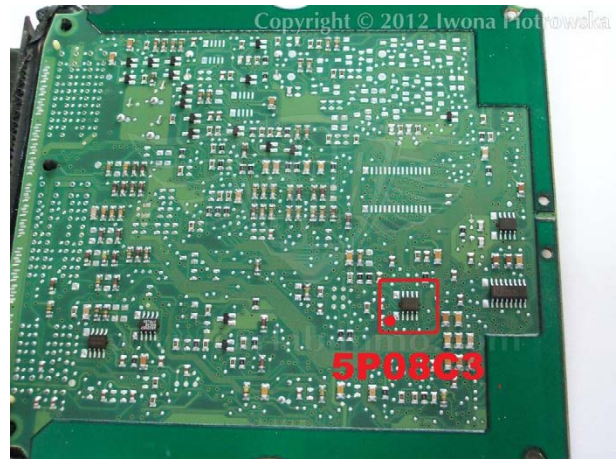
Find **5P08C3** memory
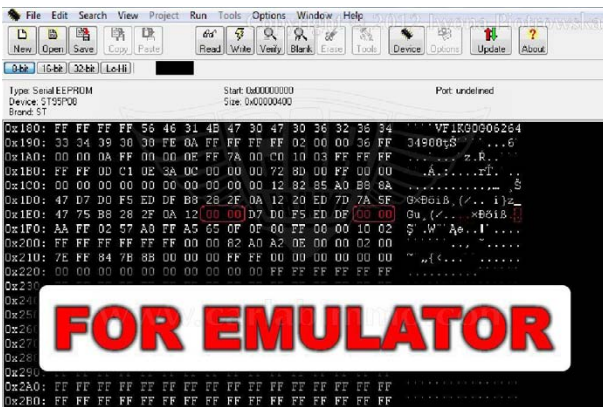
In address from **1E7** to **1E8**
and **1EE** to **1EF** write **00 00** values
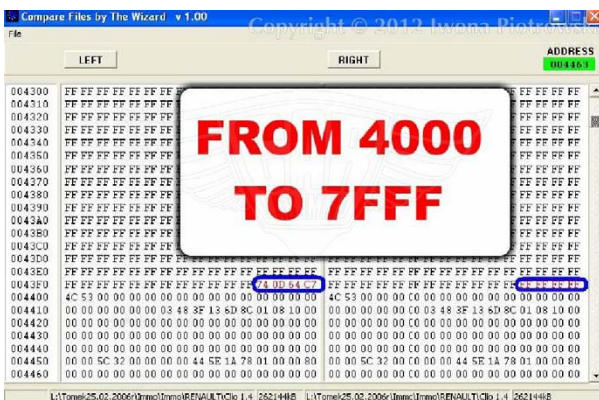
It is possible to disconnected CAN from ECU
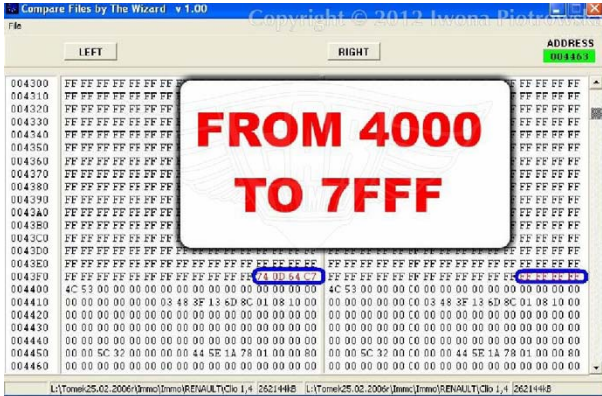
EMS 3132 with CAN

www.carlabimmo.com

Connecting emulator to ECU

Find **29F200** flash

In the addresses from **4000** to **7FFF**, find all **64 C7** or **54 D7** values and change these values and two units before them into **FF FF FF FF**

Repeat it in the whole map from **4000** to **7FFF!!!**

**Every time you want to start the car, you have to turn the keys in the ignition TWICE before it starts!**

EMS 3134 with CAN

Connecting emulator to ECU
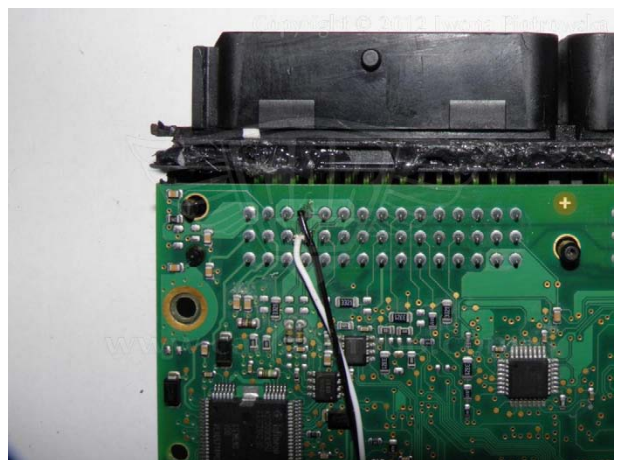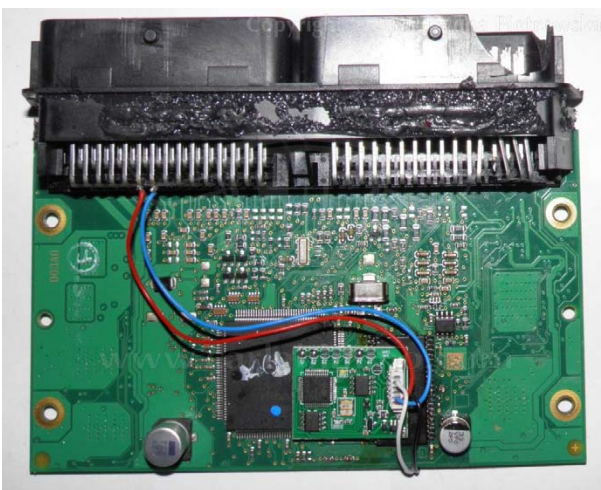
Find **29F400** flash

www.carlabimmo.com

In the addresses from **4000** to **7FFF**, find
all **64 C7** or **54 D7** values
and change these values and two units
before them into **FF FF FF FF**

**Repeat it in the whole map from 4000 to
7FFF!!!**

**Every time you want to start the car, you have to turn the keys in the ignition TWICE before
it starts!**

Tested on vehicles:

**SIRIUS 32 - Clio 1.2 8V 2001
Renault Megane II / Clio II 1.5 DCI
Renault Trafic 1.9DCI 2004
Nissan Primastar 1.9 DCI 2001 - 03
Opel Vivaro 1.9DCI /2.5DCI 2004
Renault Master 2.5DCI 2002
Renault Laguna II 1.9DCI/ 2.2DCI
Renault Megane II 1.9DCI**

**You can buy our products and obtain technical support from our distributor. Find a
distributor near you by clicking on the link:** **_www.carlabimmo.com/our-partners_**

Renault without CAN

**In Universal Julie Emulator
solder jumpers J2, J3, J4 and J5**

Available as Universal Julie Emulator
program no. 36
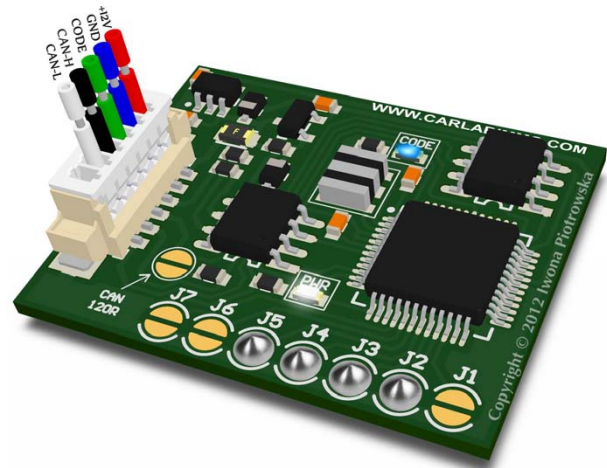
Renault without CAN old ECUs

**In Universal Julie Emulator
solder jumpers J2, J3 and J5**

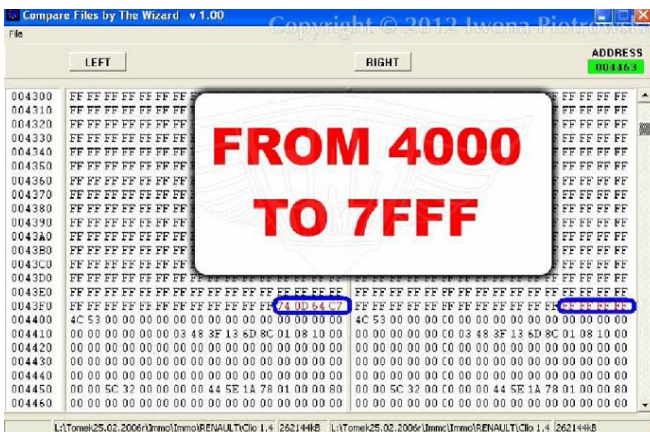Available as Universal Julie Emulator
program no. 37
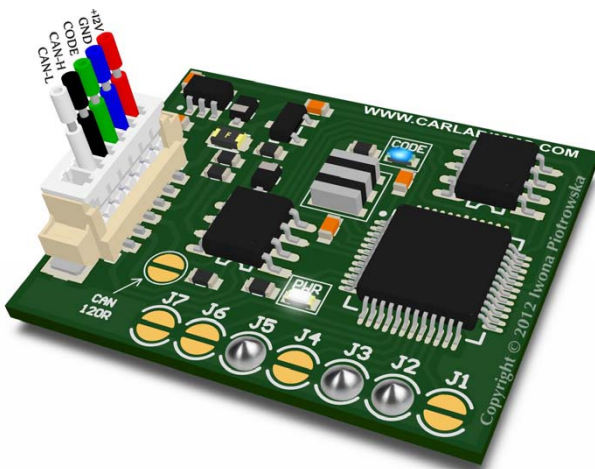
USE

Sirius 32 without CAN
Sirius 34 without CAN
EMS 3132
1.9 2.2 and 2.5 DCi without CAN
1.5 DCi without CAN
1.9 DTi 1 plug
1.9 DTi 2 plugs
1.9 diesel DCU3
2.8 TD
3.0 gasoline 1 plug
Volvo S40 and V40 – 1.9TD (Bosch 0 281 001 906 ECU)

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Sirius 32 without CAN

Find **29F200** or **29F400** flash

In the addresses from **4000** to **7FFF**,
find all values **64 C7** or **54 D7**
and change these values and two
units before them into **FF FF FF FF**

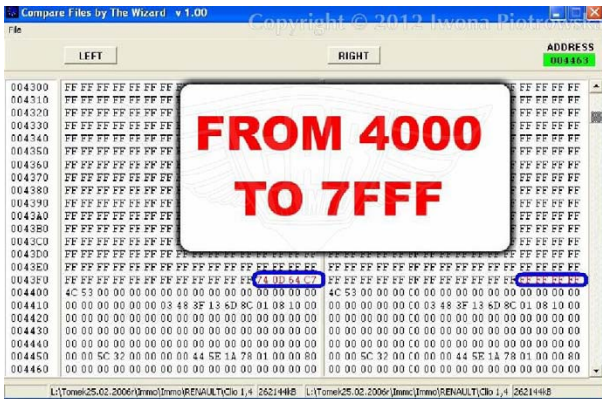Repeat it in the whole map from
4000 to **7FFF** !!!

Connecting emulator to ECU
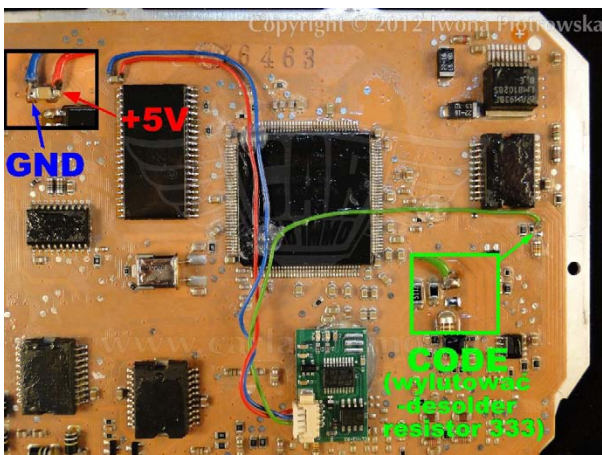
Take power and GND for the emulator
from the capacitor

Connect Code signal after desoldering a
333 resistor

You can buy our products and obtain technical support from our distributor. Find a distributor near you by clicking on the link: *www.carlabimmo.com/our-partners*

If there is **A82C250 CAN transducer** on the plate in the ECU, then the emulator will not work in this ECU!!!
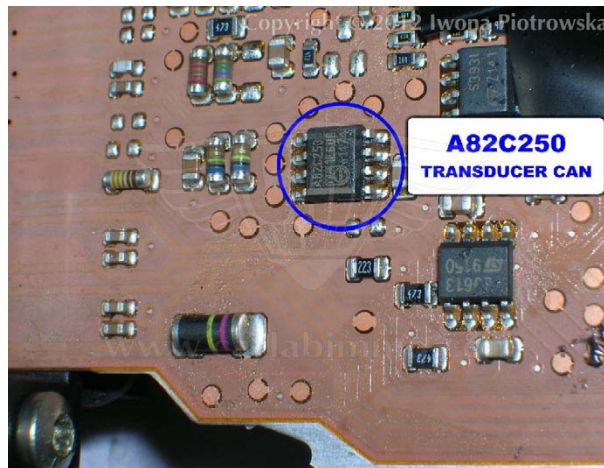
Sirius 34 without CAN

Find **29F200** or **29F400** flash
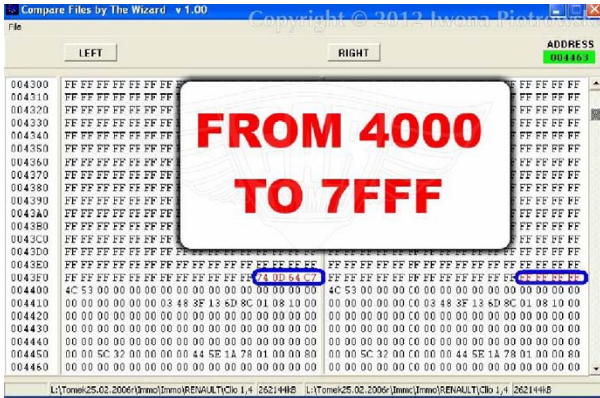
In the addresses from **4000** to **7FFF**, find all values **64 C7** or **54 D7** and change these values and two units before them into **FF FF FF FF**

Repeat it in the whole map from **4000** to **7FFF !!!**

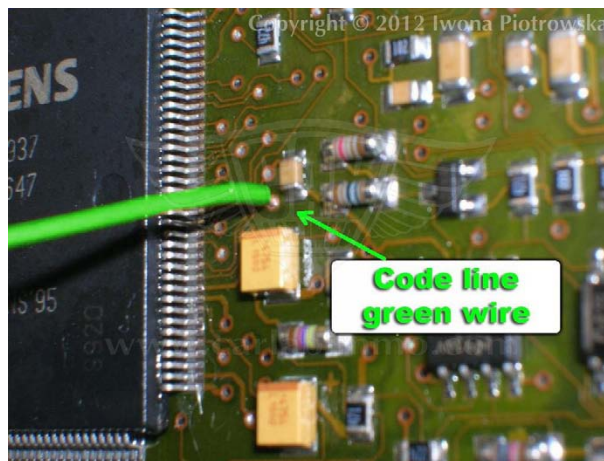Take power for the emulator from the capacitor at the flash

EMS 3132

Find **29F200** or **29F400** flash

In the addresses from **4000** to **7FFF**, find
all values **64 C7** or **54 D7**
and change these values and two units
before them into **FF FF FF FF**

Repeat it in the whole map from **4000** to
7FFF !!!

Take power for the emulator from the capacitor at the flash.
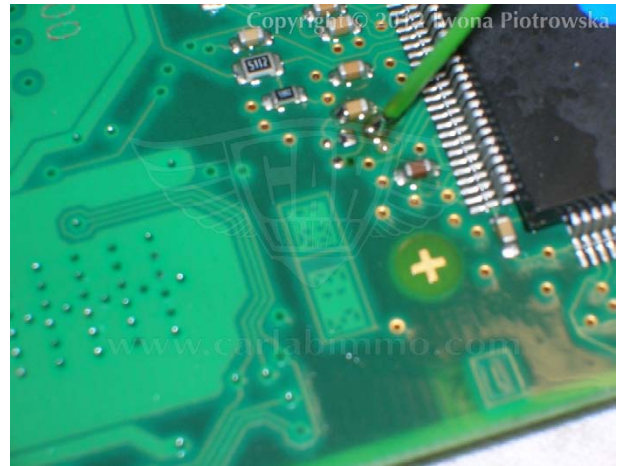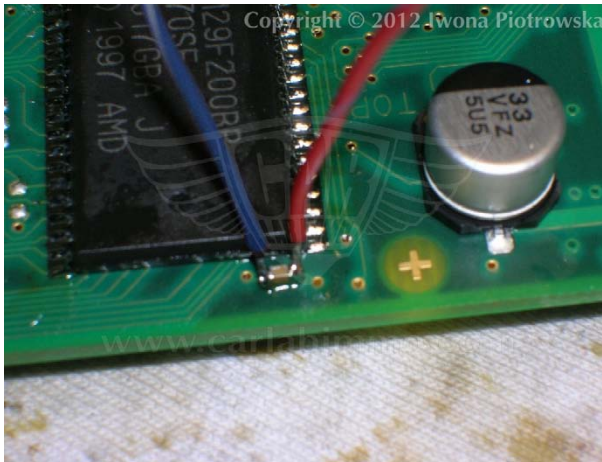
Connect emulator as pictured after unsoldering the capacitor.

Connect it to the point which leads to the processor.

1.9 2.2 and 2.5 DCi without CAN

In **5P08C3** memory
in the addresses:

003E 003F 0040 0041
and
0044 0045 0046 0047
change these values into **FF**

In ECU, solder immo line (code) of emulator to the point as pictured

Take power for the emulator from the capacitor on the ECU plate
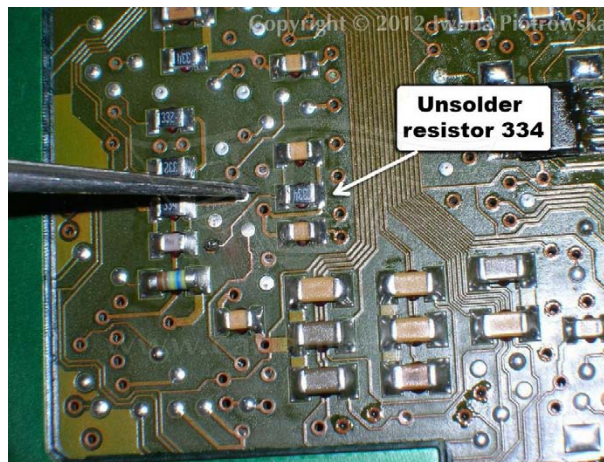
Unsolder 334 resistor

Turn on the ignition for 30 seconds,then turn it off for 30 seconds and repeat the procedure a few times

1.5 DCi without CAN
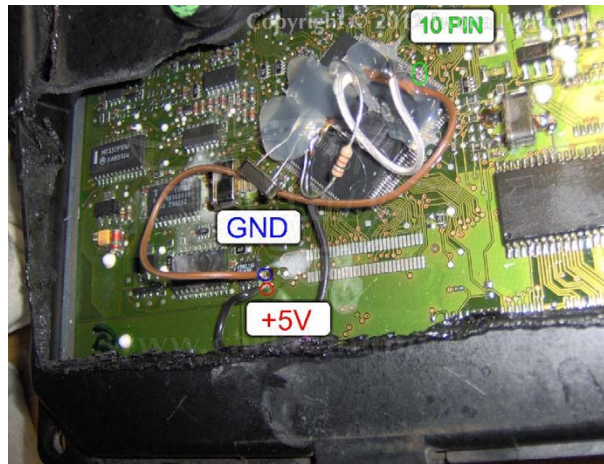
Car without tachometer

Replace **25080** content and connect emulator.

10 pin of processor is immo line as pictured, which must be raised.
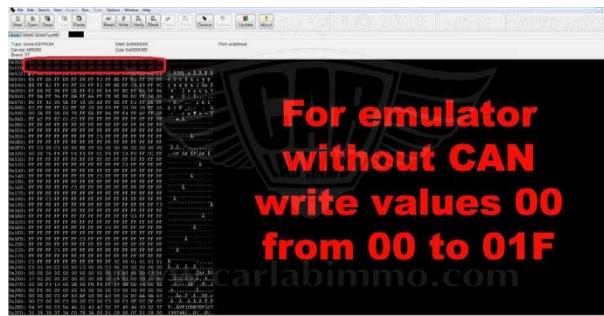
Take power from the capacitor at the memory.

Code injectors and settings with Clip or Launch.

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1.9 DTi 1 plug

3E-41=FF
54-57=FF

3E-41 = FF
56-59 = FF
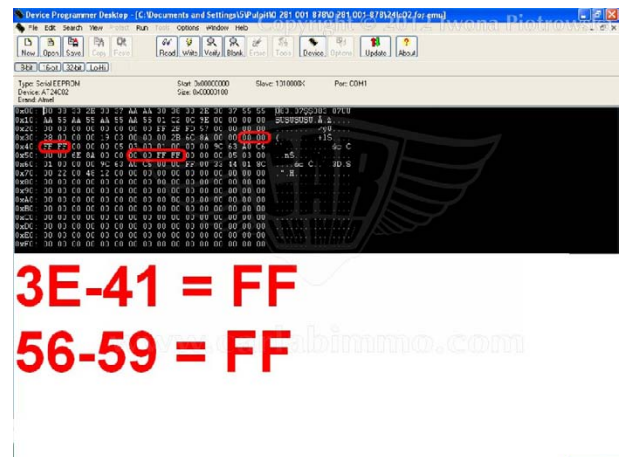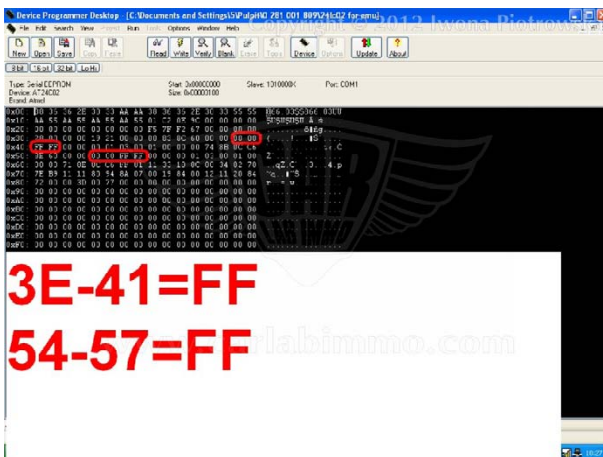
Connecting emulator to ECU
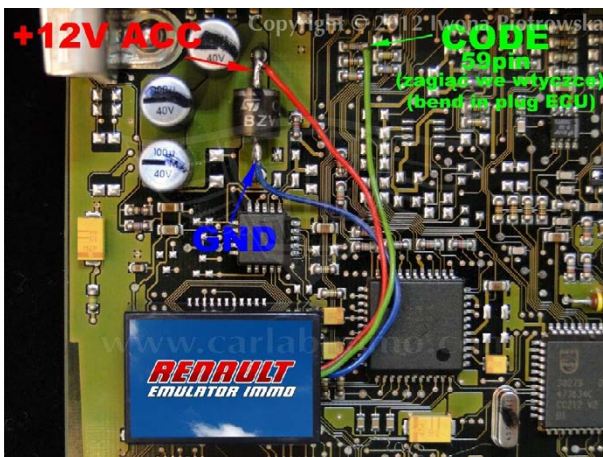
Connect the immo line of emulator to pin 59 of ECU.

Connect GND and ACC to diode in the ECU.

Bend pin 59 in ECU socket

1.9 DTi 2 plugs

In the addresses from **174** to **177** and
1B7 to **1BA**
change these values into **FF FF FF FF** in
24C04 memory

Connecting emulator to ECU
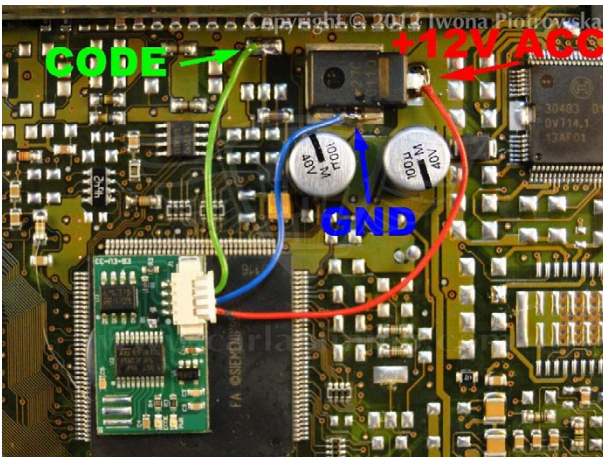
| ACC | 81 pin |
| Immo | 15 pin |

GND 4 and 5 pin

Cut off pin 15 from wiring!!!

1.9 diesel DCU3

Renault Kangoo 1.9 Diesel 2001

02-05 = 00 00 FF FF

82-85 = 00 00 FF FF

For coding
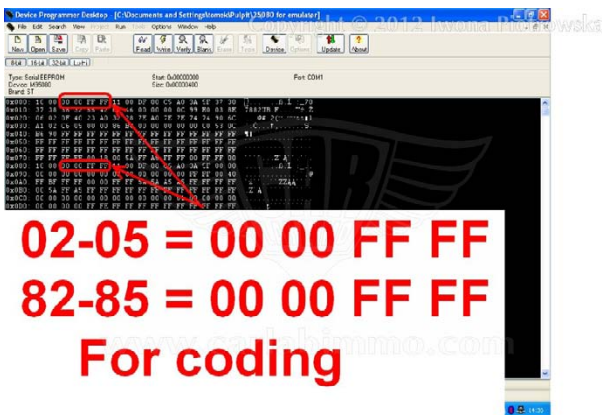
In addresses from **02** to **05** and **82** to **85** change these values into **00 00 FF FF** in **95080** memory
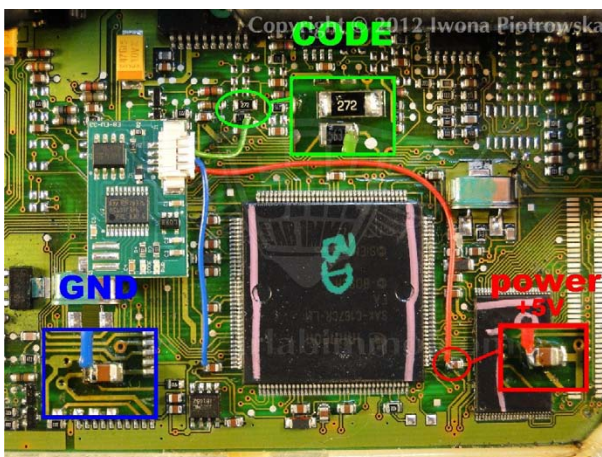
Connecting emulator to ECU

+5V VCC	**from capacitor**
GND	**79 pin**
Code	**20 pin**

Pin 20 must be bent in socket or cut off from the car wiring.

Connecting emulator to ECU
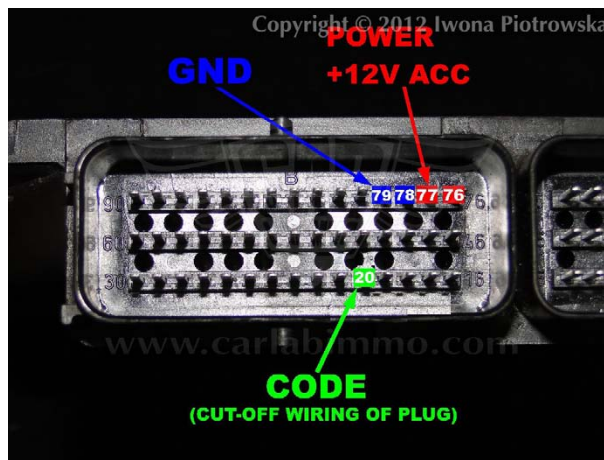
+12V ACC   76 or 77 pin

GND   78 or 79 pin

Code   20 pin Cut off wiring from ECU plug

2.8 TD
(Renault Mascott)
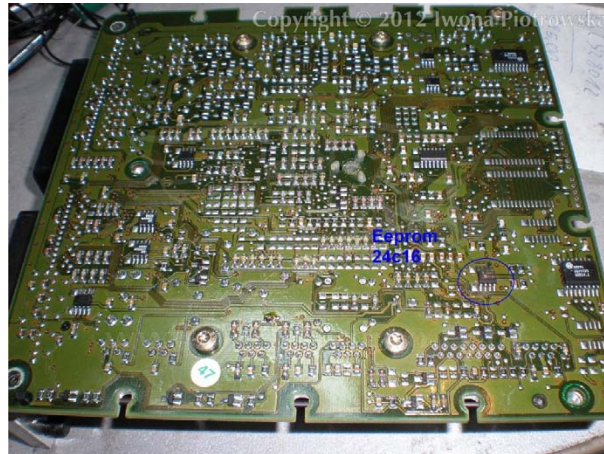
In addresses from **040** to **1FF** change these values into **FF** in **24C16** memory

Connecting emulator to ECU
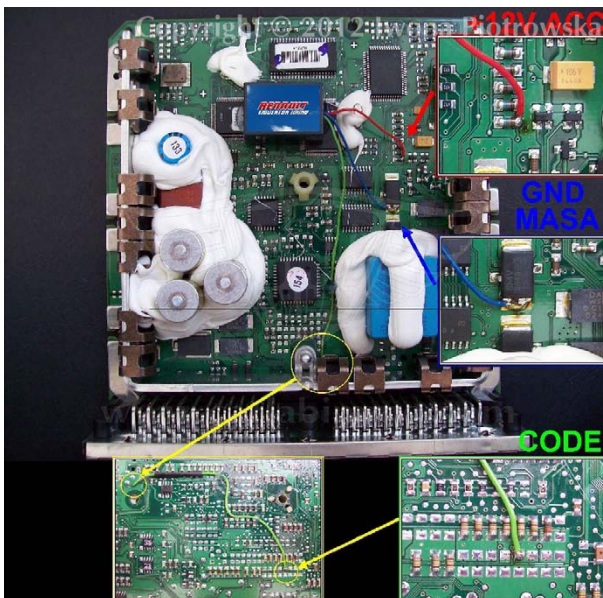
3.0 gasoline 1 plug with 24C02 memory
(Renault Laguna)
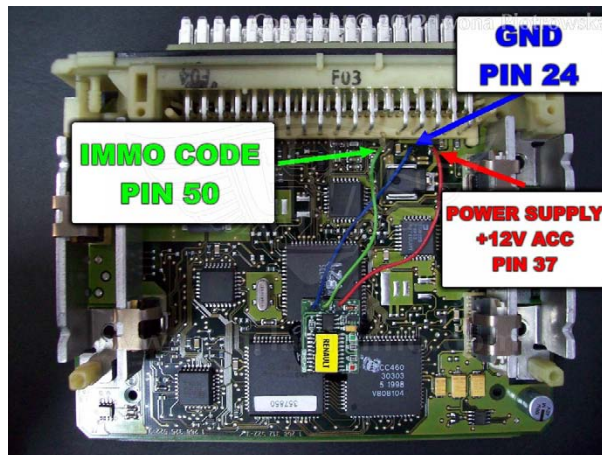
Cut off pin 50 from ECU!!!
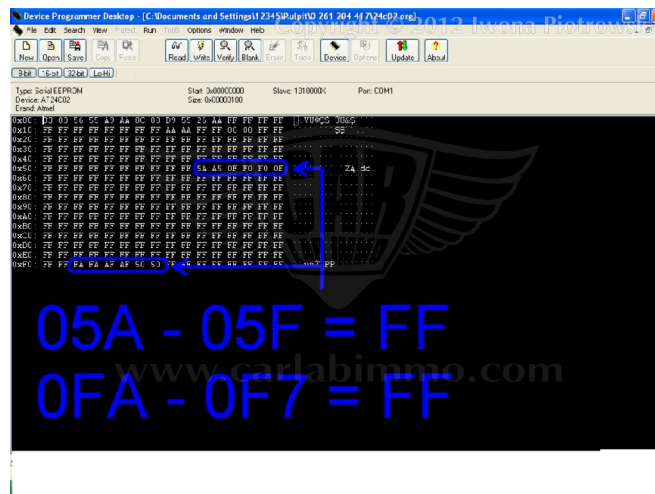
In addresses from **05A** to **05F** and from **0F2** to **0F7** change these values into **FF** in **24C02** memory

Volvo S40 and V40 – 1.9TD (Bosch 0 281 001 906 ECU)
MSA 15.5-5.40

In addresses from **03F** to **041** and from
054 to **057**
change these values into **00 00 FF FF** in
24C02 memory

03F - 041 = 00 00 FF FF
054 - 057 = 00 00 FF FF

Suzuki with X24C01 memory
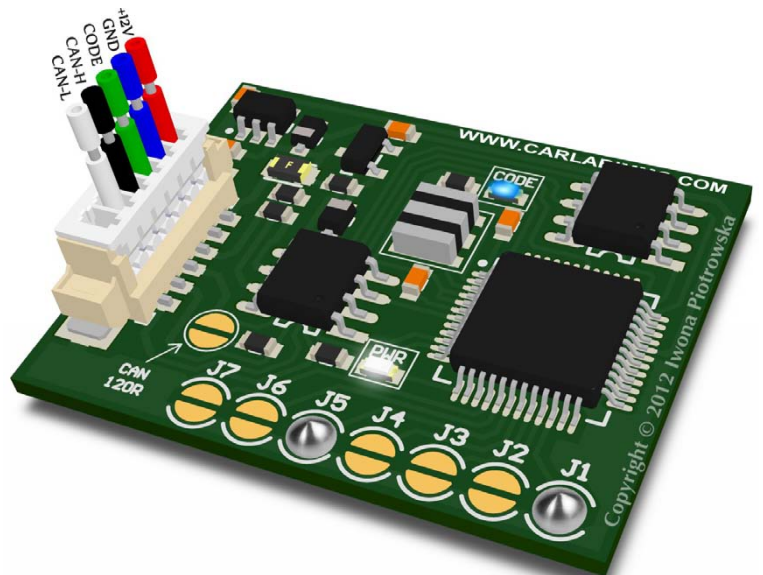
**In Universal Julie Emulator
solder jumpers J2 and J5**

Available as Universal Julie Emulator
program no. 38
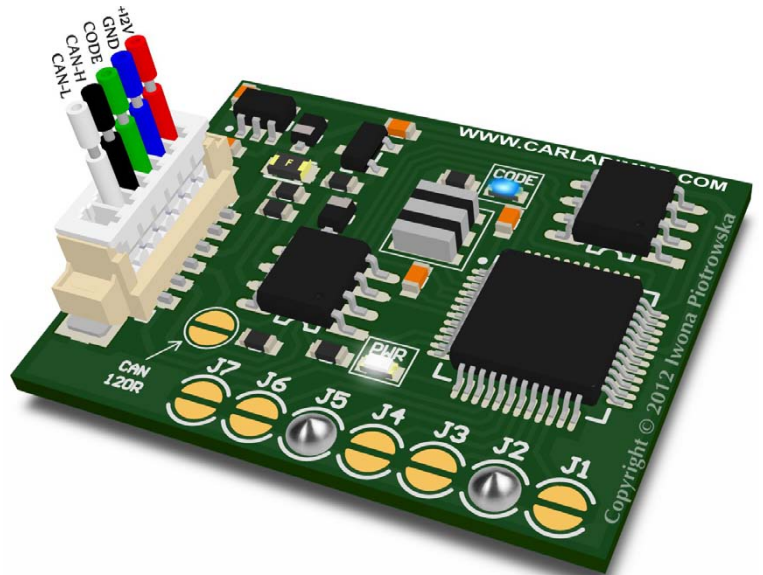
Suzuki with OKI memory

**In Universal Julie Emulator
solder jumpers J1 and J5**

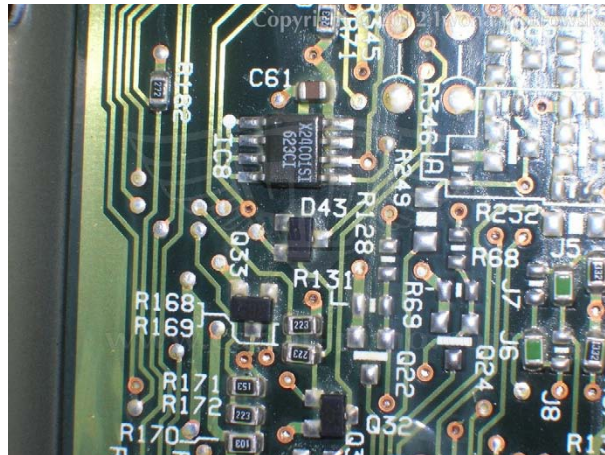Available as Universal Julie Emulator
program no. 39

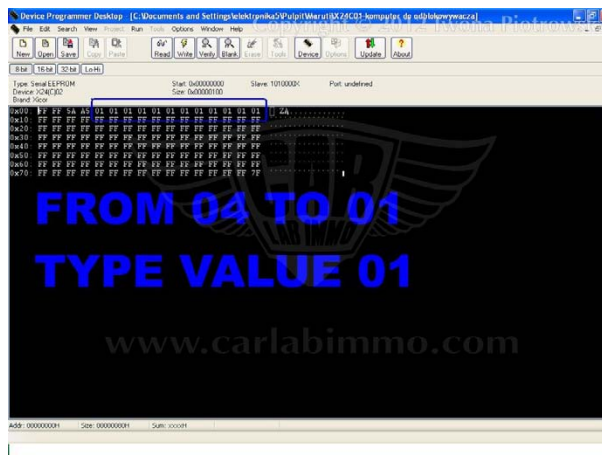* Sometimes, X24C01 and OKI programs work interchangeably

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USE

ECU with X24C01 memory
ECU with OKI memory read as 93LC56
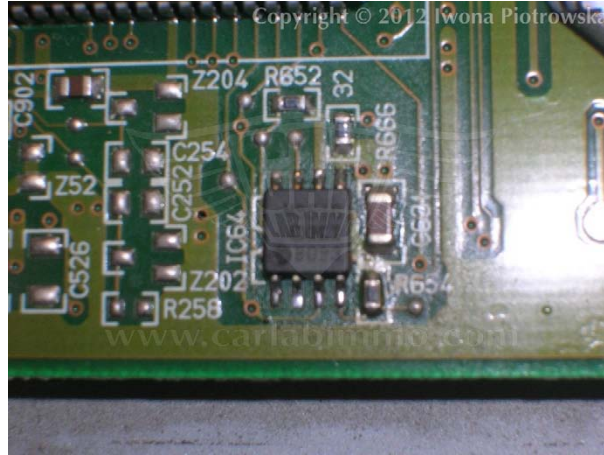

Find **X24C01** eeprom memory

In address from **04** to **0F** write **01** value

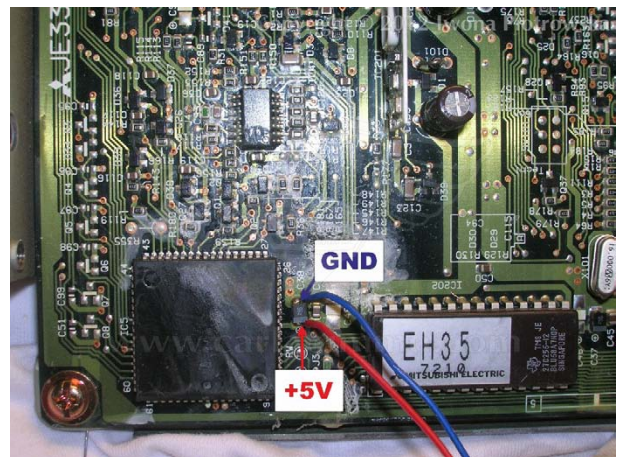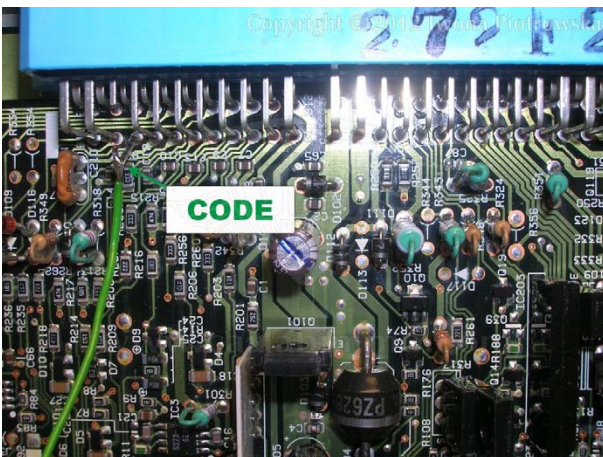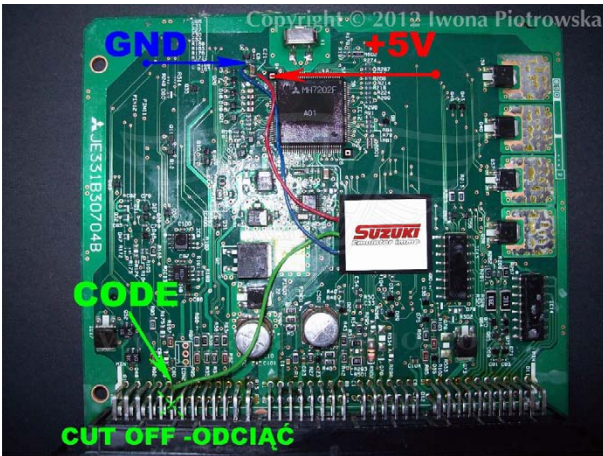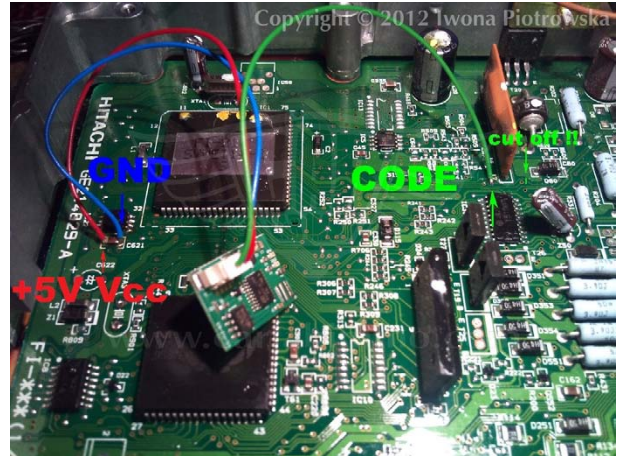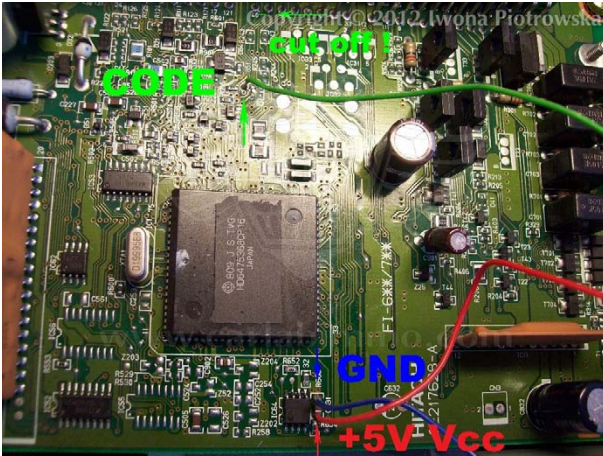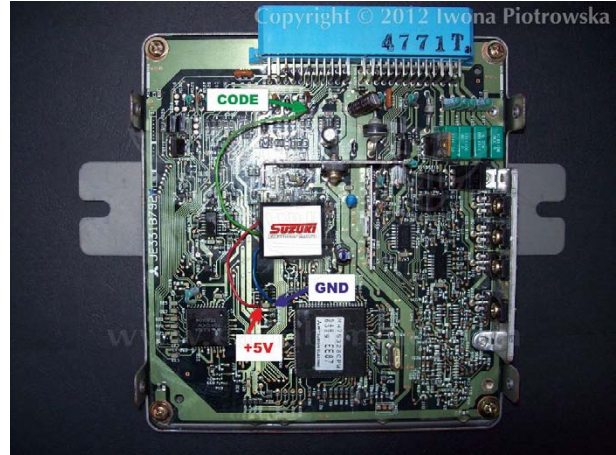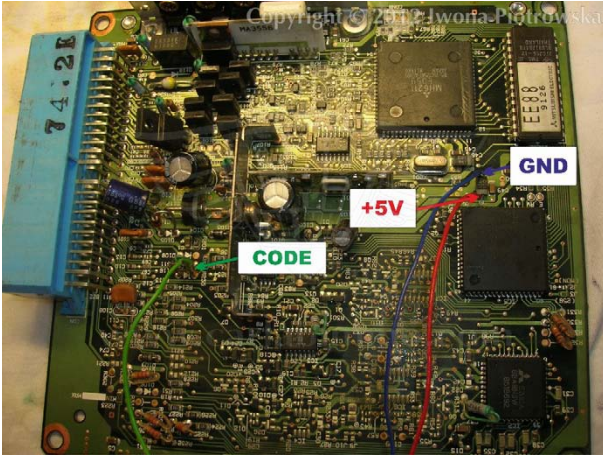Find **OKI** eeprom memory,
read and save as **93LC56**
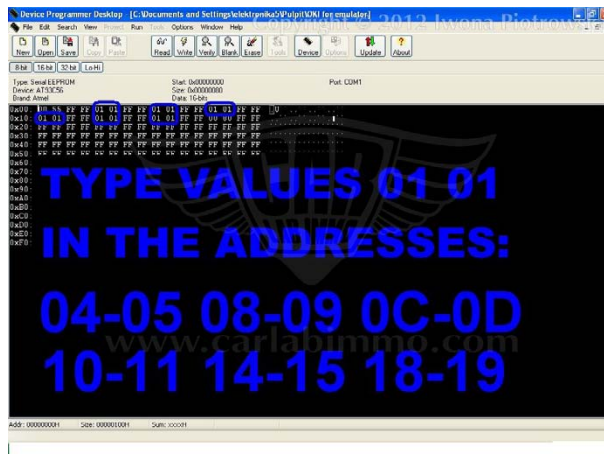
In **OKI** eeprom memory
write **01 01** values in addresses:

04 – 05   08 – 09   0C - 0D
10 – 11   14 – 15   18 - 19

Connection diagram examples
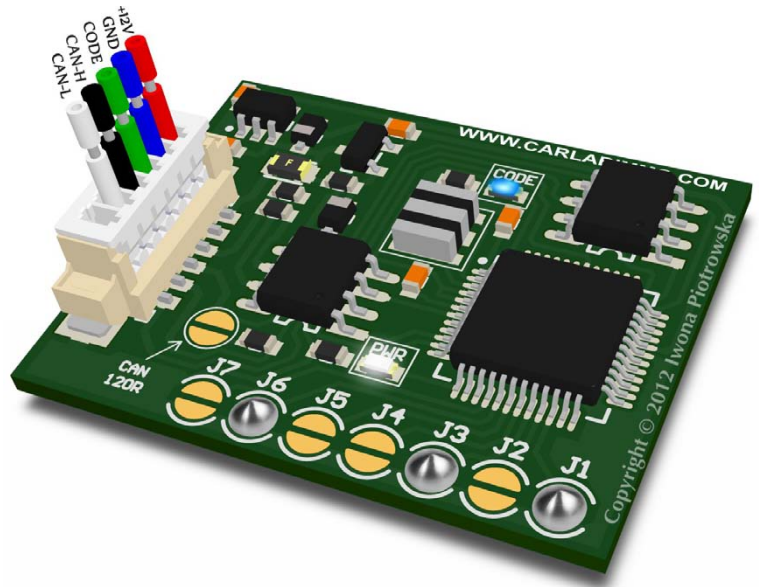
Immo line e.g. socket B pin 15

In different ECU types, the immo line can be in different pins. You check connection between ECU pin and pin 9 of 16-pin OBD socket with a multimeter.

Power supply 5V from capacitor near memory.

Suzuki with 93C56 memory

**In Universal Julie Emulator
solder jumpers J1, J3 and J6**

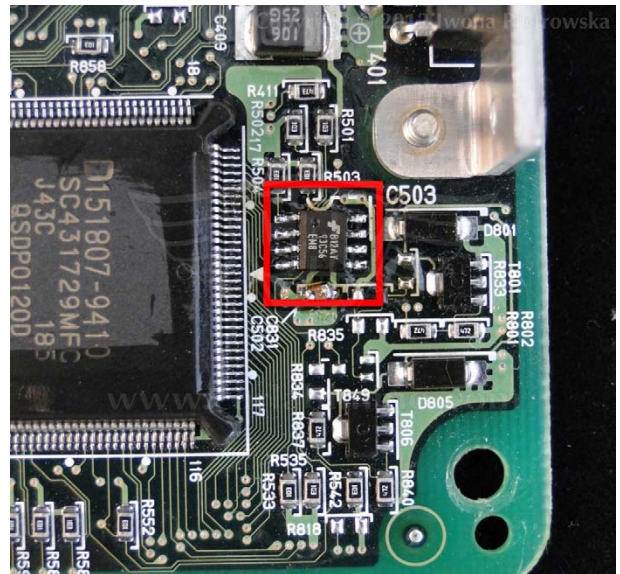Available as Universal Julie Emulator
program no. 40

USE

Denso metal ECU box with 93C56 memory and 29F200 flash

Denso plastic ECU box with 93C56 memory and 29F200 flash

The car must have 4C or 4D key.

Denso metal ECU box with 93C56 memory and 29F200 flash

Find **93C56** memory in ECU

From 04 to 07 write 8A 57 01 07 value.

In **93C56** memory
write **8A 57 01 07** values in addresses from **04** to **07**

Connection diagram examples

Immo line e.g. socket C pin 7

In different ECU types, the immo line can be in different pins. You check connection between ECU pin and pin 9 of 16-pin OBD socket with a multimeter.

Disconnect immo box!

Subaru Justy 1.3 4WD 2000/2001

Find **93C56** memory in ECU

In **93C56** memory
write **8A 57 01 07** values in addresses from **04** to **07**

Connection diagram examples

Disconnect immo box!

Denso plastic ECU box with 93C56 memory and 29F200 flash

Find **93C56** memory in ECU

From 04 to 07 write 8A 57 01 07 value.

In **93C56** memory
write **8A 57 01 07** values in addresses from **04** to **07**

Connection diagram example

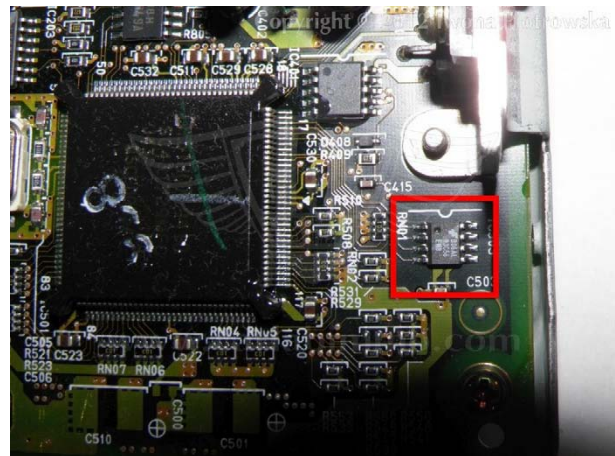**Disconnect immo box and connect emulator to the immo's box plug**

GND	1 pin
Immo line	2 pin
+12V ACC	3 pin

TMS 374 – Citroen, Peugeot, Renault

**In Universal Julie Emulator
solder jumpers J2 and J3**

Available as Universal Julie Emulator
program no. 41
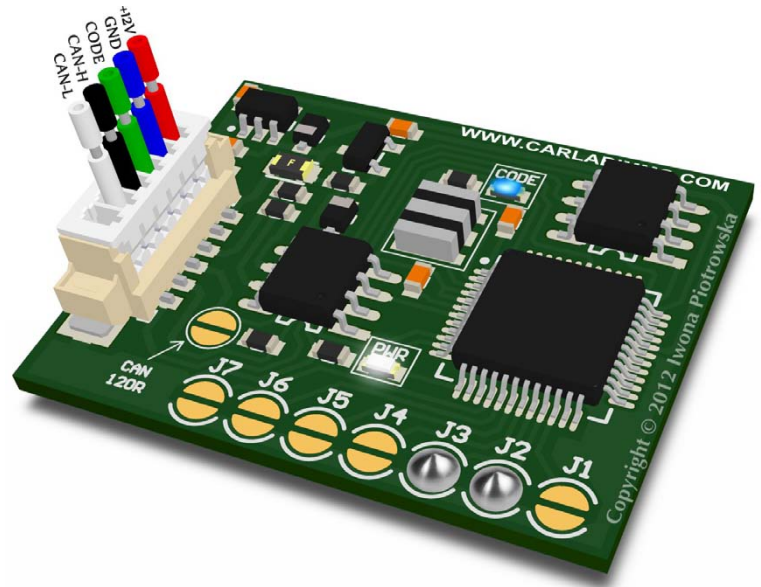
EMULATOR'S POWER +5V

USE

Renault ECU with TMS374 processor

Siemens Fenix 5
Sagem Safir 1
Sagem Safir 2

**Citroen, Peugeot ECU
with TMS374 processor**

Sagem SL96
Magnetti Marelli 1AP20, 1AP40, 1AP41, 1AP43, 1AP80, 1AP81, 1AP83, 1AP90

Volvo with TMS374 processor

Siemens Fenix 5
(Volvo V40/S40 1,8i 1996-1999 ECU S113727100C_VOLVO, 30850998-01)
Siemens (Volvo V40/S40 1,8i 1996 ECU
S113716100C, HOM7700860924)

Before removing immo, cut the immo cable off the ECU plug

Sagem SL96 – 48 pin
Magnetti Marelli 1AP - pin 48 and 27
Fenix5 1.4 and 1.6 - 37 pin, **Fenix5 1.8 and 2.0** - 35 pin
Sagem Safir1 35-pins – 30 pin
Sagem Safir2 55-pins - 37 pin
Siemens Fenix 5 S113727100C – Volvo 1.8 55 pins – 35 pin
Siemens S113716100C – Volvo 1.8 55 pins – 35 pin

IMMO REMOVAL PROCEDURE

After cutting the immo cable off, find **pin 22** of **28F512** or **29F010** flash or **pin 21** of **27C512** or **29C512** eeprom in ECU. Solder green wire onto either of the pins depending on memory type. Solder GND onto pin 16 and solder power supply +5V VCC onto pin 32.
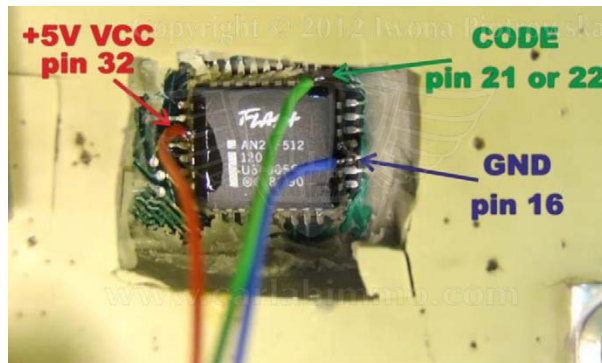
Turn the ignition on for one minute

Then, turn the ignition off and wait 5 seconds. Next turn the ignition on and wait 5 seconds (repeat this action 7 times)
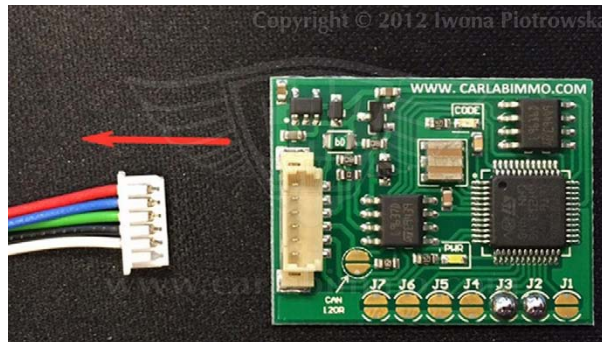
Disconnect the plug from emulator and check if car starts.

If you have a problem with removing immo from the ECU

- disconnect „minus" battery for approx. 30 seconds before starting this procedure again,

- during the procedure turn the starter several times

PINOUT IN MEMORY

If you still have any problems with removing immo please watch the instructional video
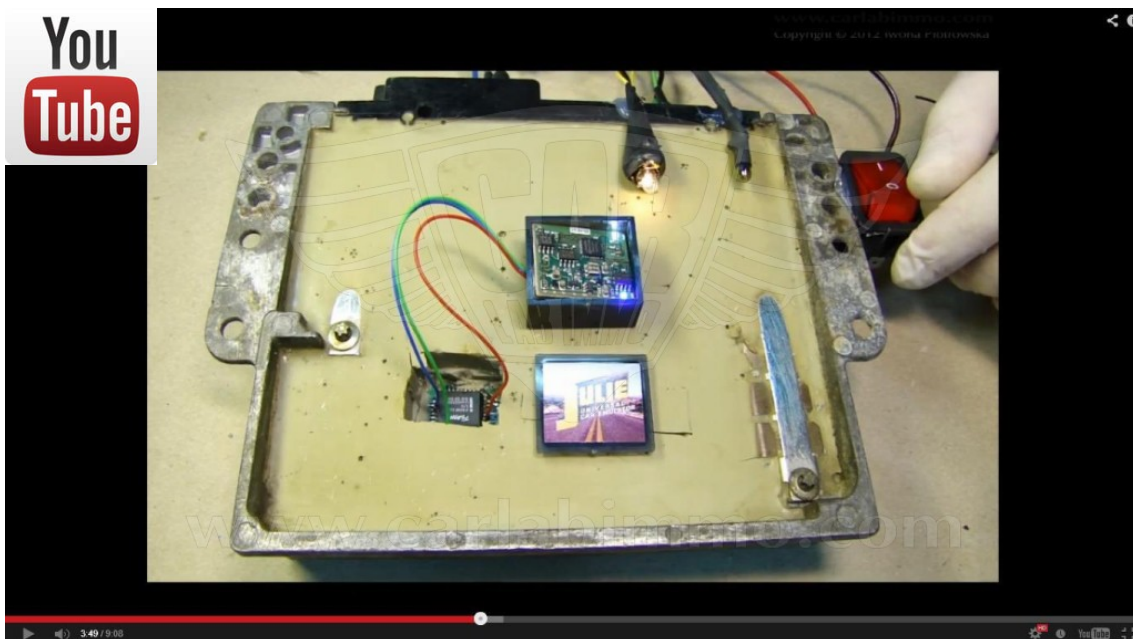
Yamaha

**In Universal Julie Emulator
solder jumpers J3 and J6**

Available as Universal Julie Emulator
program no. 42
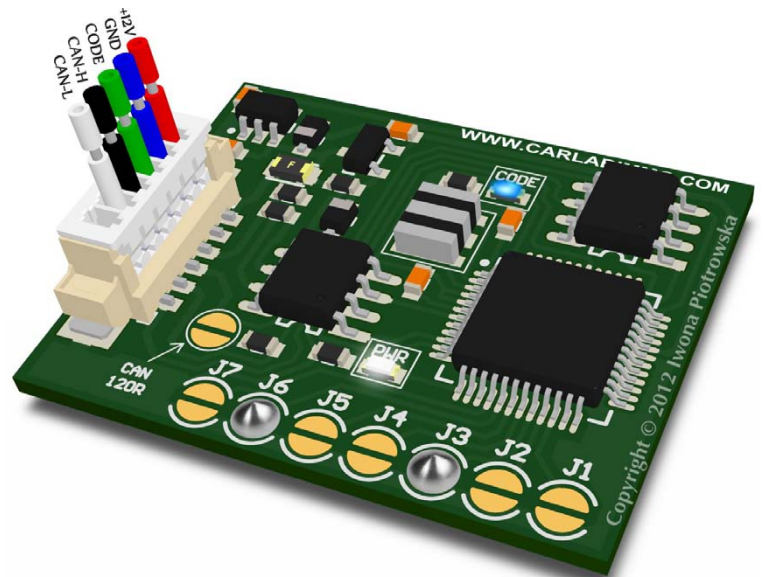
USE

**Yamaha motorbikes
and scooters from 2004 to 2010**

**YZF R1 / YZF R6
FZ6 N / FZ6 S
T-MAX
X-MAX
V-MAX
and others**

www.carlabimmo.com

Connecting Emulator to the wiring is presented in the pictures below:
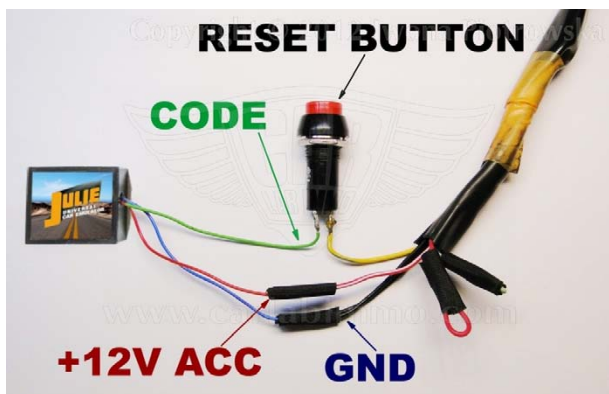
You connect code line by pressing the RESET button. In order to start the motorbike you firstly need to press and hold the RESET button, then turn the ignition and then release the RESET button. Now you can start the engine.

The wires:
Red with green stripe and grey - cover with insulation tape

If a fuel pump does not work during turning the ignition, this is a symptom of immobiliser malfunction.
In such an event, you can use this emulator.

ATTENTION!!!

This emulator can only be used for testing purposes or to verify accurate functioning of AirBag system.
This emulator cannot remain in your car as a replacement for new seat occupancy mat

The emulator needs to be connected to the plug under the passenger seat instead of original seat occupancy sensor.

There are 3 cables

+12V ACC	red
GND	blue
Digital signal	green

Before connecting the emulator, use multimeter to check signals on pins in the plug!

No.1 BMW – *without installed child seat*

**In Universal Julie Emulator
solder jumpers J1 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 1)
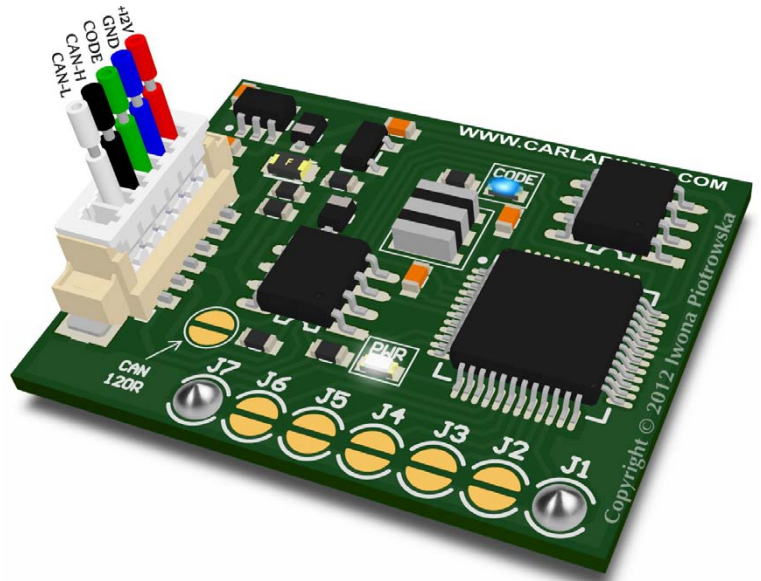
USE

Attention!

**If still, after installation of the emulator, your car signalizes unfastened passanger seatbelt
fault, then put in a resitor in place of seatbelt sensor.**

**For E90, use 680 oHm
For E60, use 510 oHm**

**Europe from 2007 to 2010
E60 , E63 , E64 , E65 , E70 , E71 , E81 , E90 , E92 , E93**

No.2 Mercedes - *without installed child seat*

**In Universal Julie Emulator
solder jumpers J2 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 2)
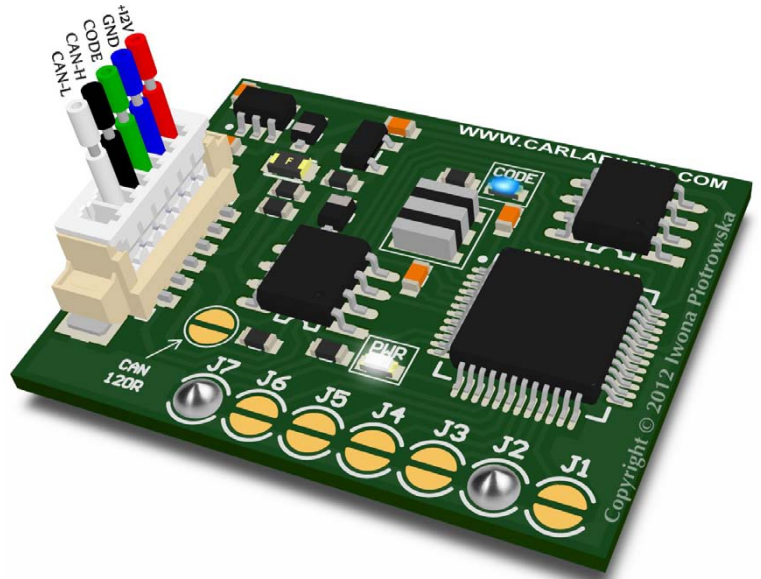
No.3 Mercedes - *with installed child seat*

**In Universal Julie Emulator
solder jumpers J1 J2 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 3)

USE

- E-class W211 from 2002 to 2004 with Temic airbag controller
- S-class W220 from 2003 to 2005

No.4 Mercedes - *without installed child seat*

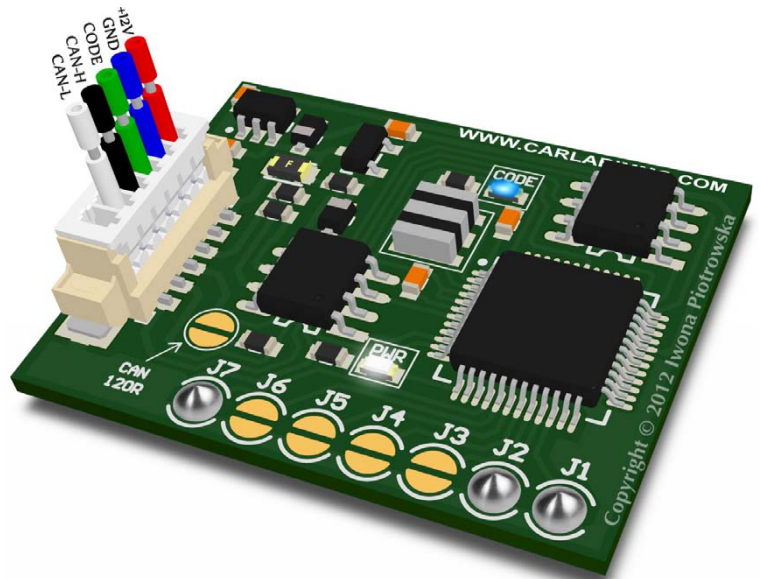**In Universal Julie Emulator
solder jumpers J3 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 4)

No.5 Mercedes - *with installed child seat*

**In Universal Julie Emulator
solder jumpers J1 J3 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 5)

USE

- A-class W168 from 1997 to 2001
- C-class W202 from 1999 to 2001
- Vito W638 up to 2003
- ML 1999 with TRW airbag controller
- E-class W210 up to 1999, before lifting with airbag OFF indicator

After correctly connecting the emulator, SRS/AIRBAG fault on instrument cluster goes off without necessity to delete the code of faults.

No.6 Mercedes - *without installed child seat*

**In Universal Julie Emulator
solder jumpers J2, J3 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 6)
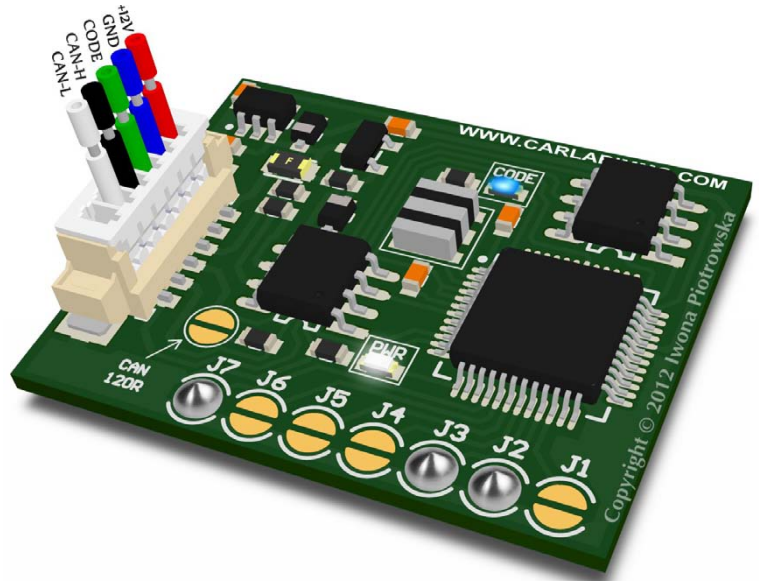
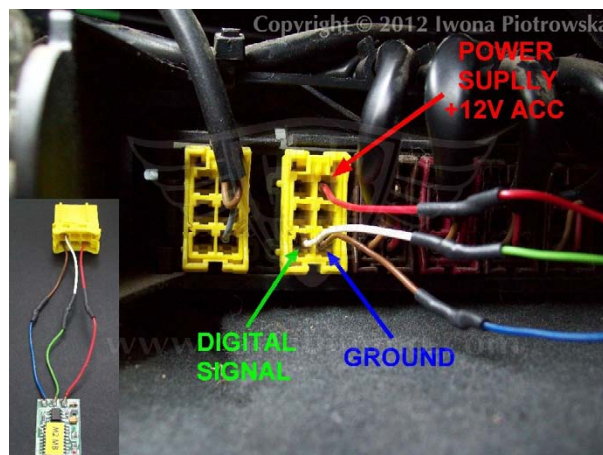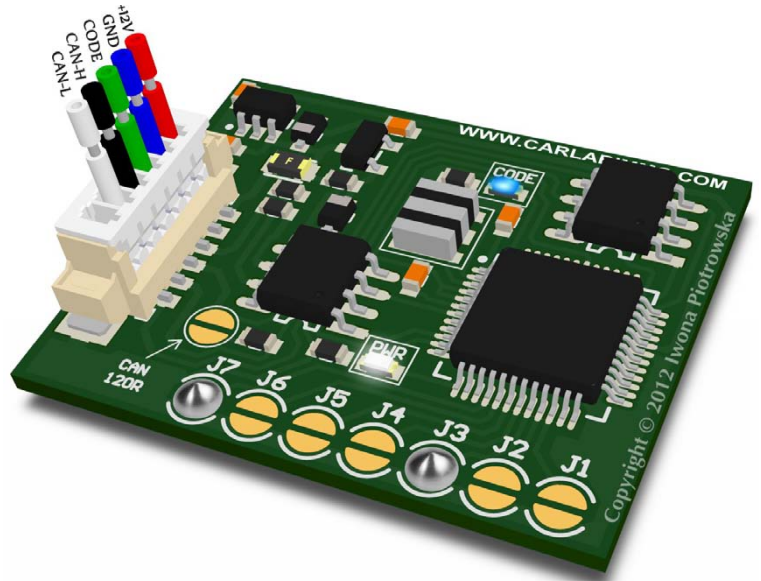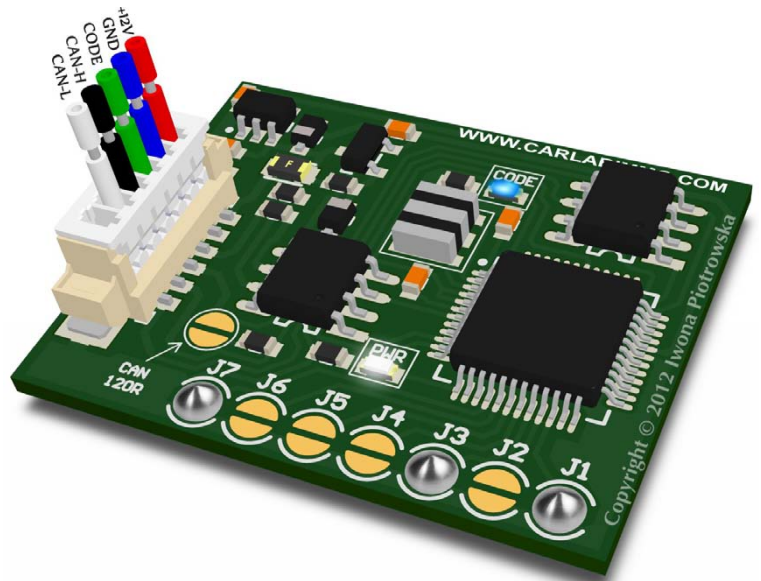## No.7 Mercedes - *with installed child seat*
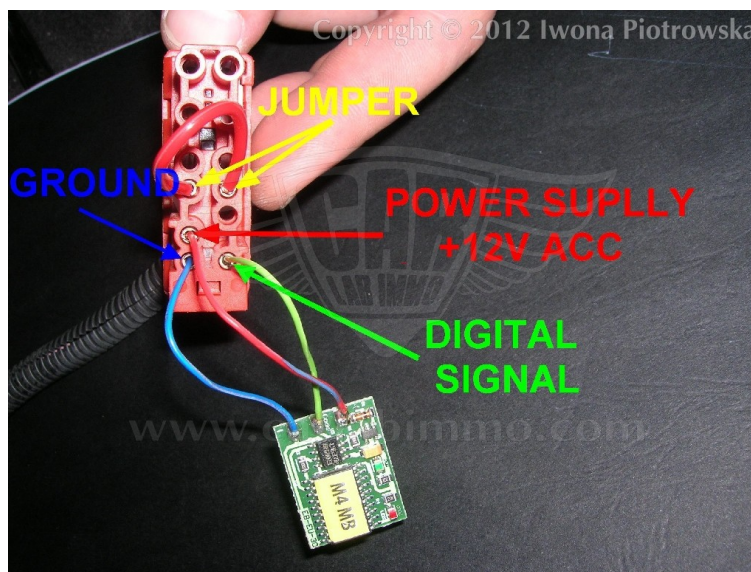
**In Universal Julie Emulator
solder jumpers J1, J2, J3 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 7)

USE

- E-class W210 from 1999 to 2003 with airbag OFF indicator after lifting
- Vito W639 from 2002 to 2005
- ML W163 from the year 2000
- A-class W168 from 2002 to 2005
- S-class W220 from 2000 to 2003
- C-class W203 up to 2005
- CLK W209
- Vaneo

No.8 BMW - *without installed child seat*
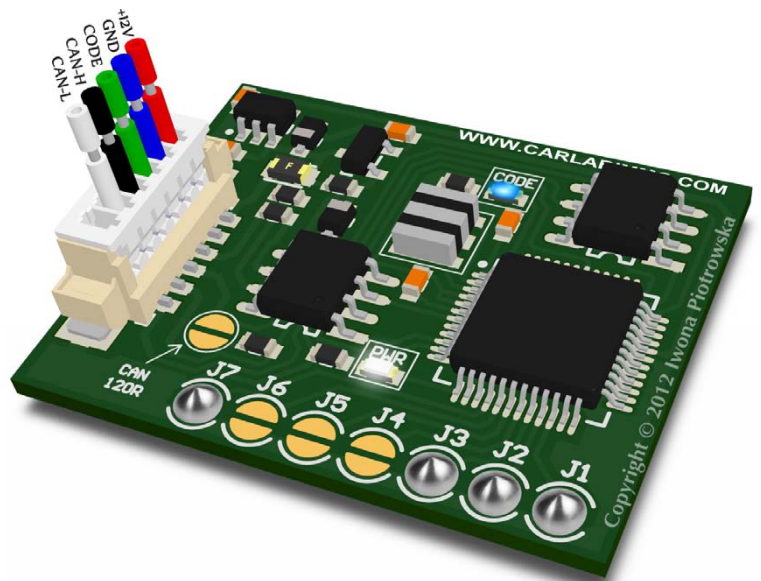
**In Universal Julie Emulator
solder jumpers J4 and J7**

Available as Universal Julie Emulator
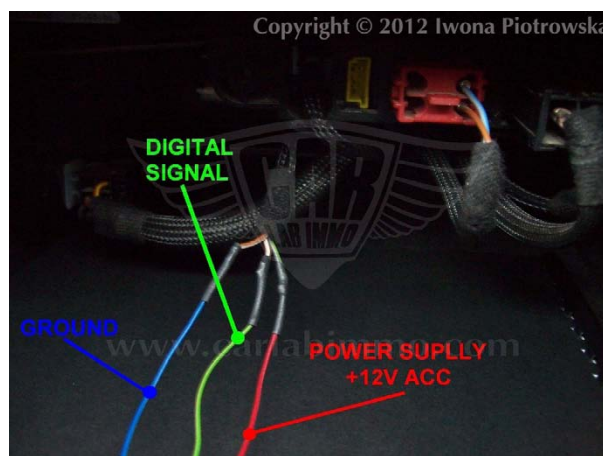(Seat Occupancy Sensor program no. 8)

No.9 BMW - *with installed child seat*

**In Universal Julie Emulator
solder jumpers J1, J4 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 9)

USE

Models from 1997 to 2003:
E31, E36, E38, E39, E46, E53,
Models from 2003 to 2007:
E60, E63, E65, E87, E90

No.10 Mini Cooper - *without installed child seat*

**In Universal Julie Emulator
solder jumpers J2, J4 and J7**

Available as Universal Julie Emulator
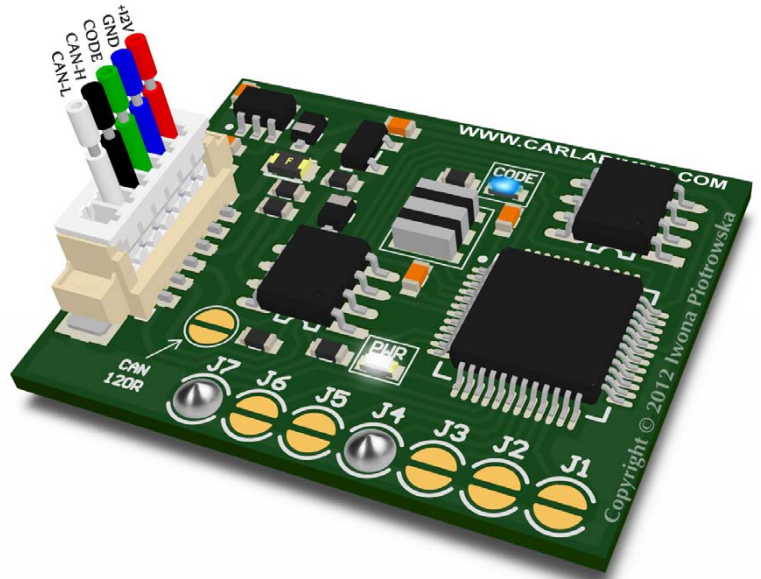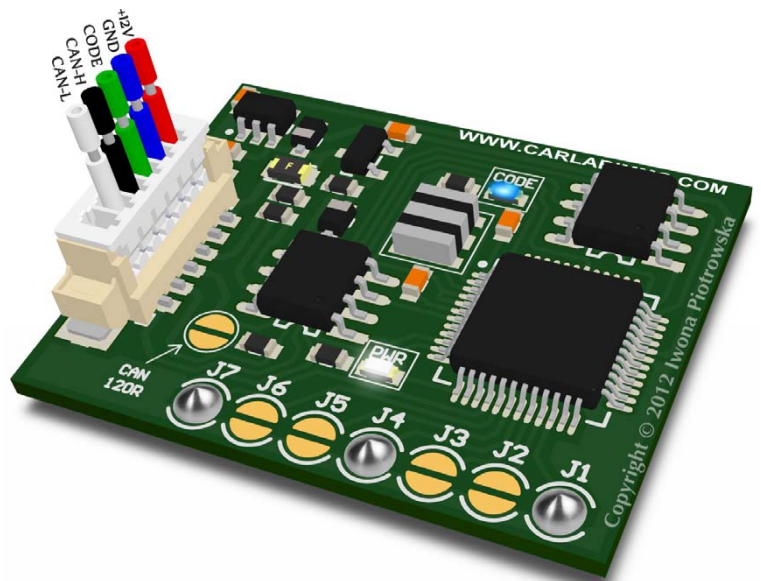(Seat Occupancy Sensor program no. 10)

No.11 Mini Cooper – *with installed child seat*

**In Universal Julie Emulator
solder jumpers J1, J2, J4 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 11)

**USE
Mini Cooper from 2002 to 2005**
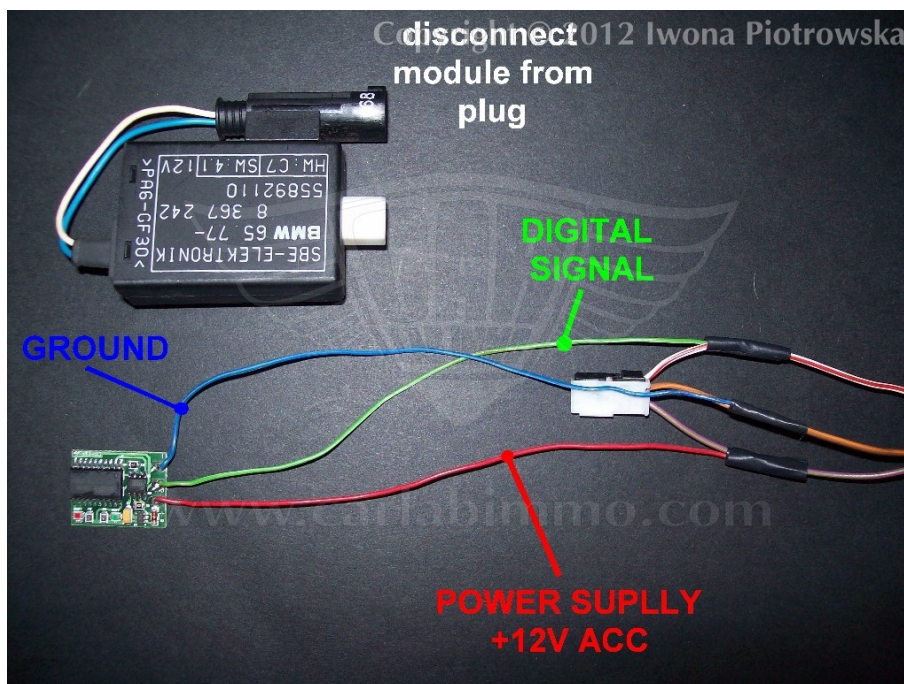
No.12 Mazda - *without installed child seat*

**In Universal Julie Emulator
solder jumpers J3, J4 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 12)

No.13 Mazda - *with installed child seat*

**In Universal Julie Emulator
solder jumpers J1, J3, J4 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 13)
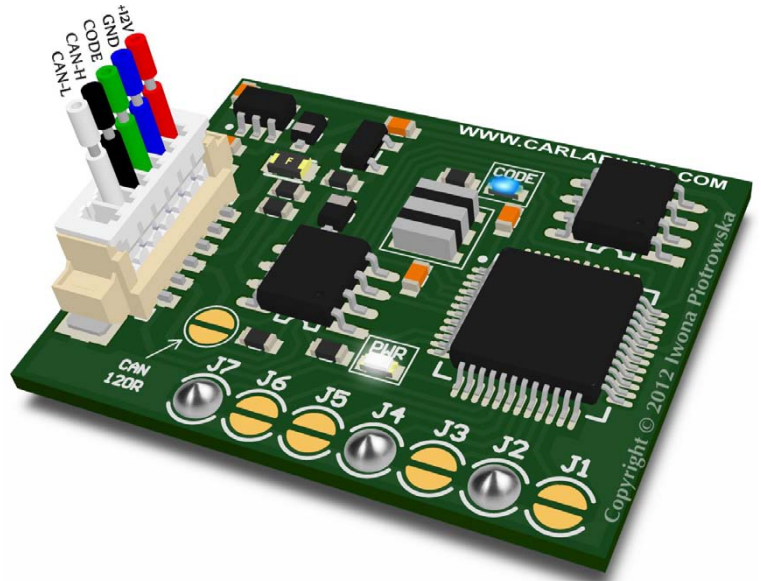
USE

- Premacy
- MX-5
- 626
- 323
- 6

No.14 Fiat Stilo - *without installed child seat*

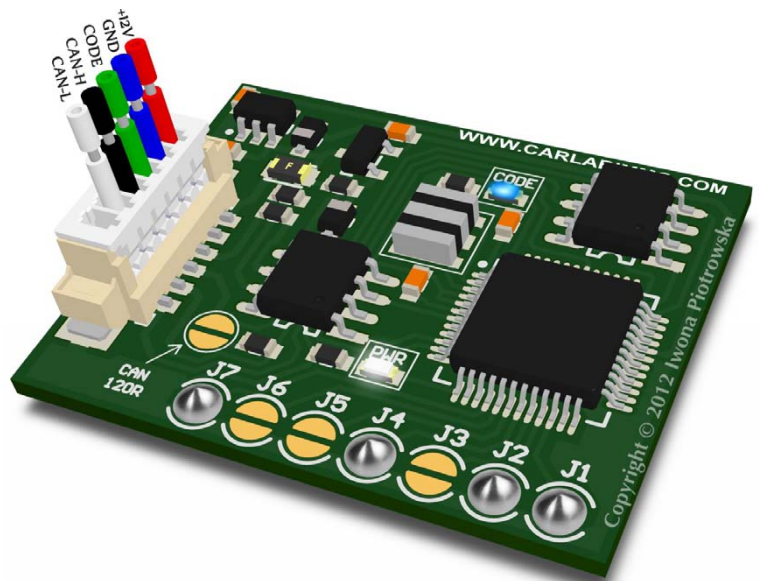**In Universal Julie Emulator
solder jumpers J2 J3, J4 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 14)
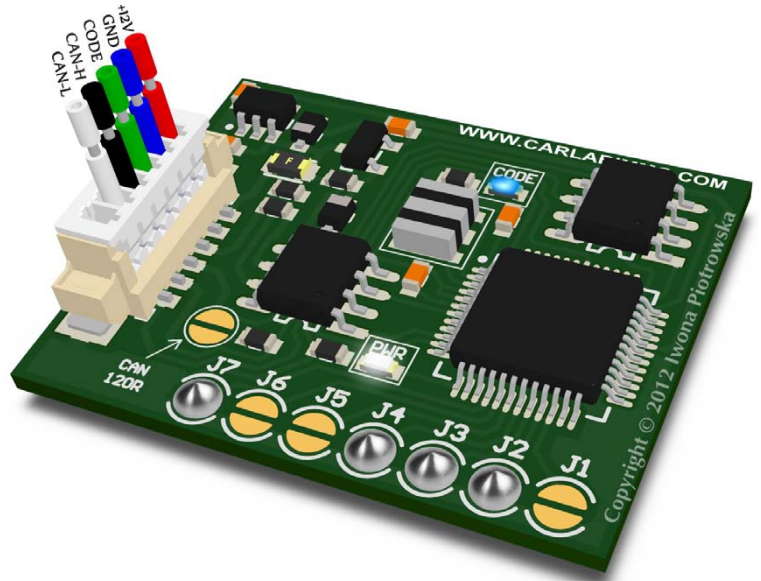
No.15 Fiat Stilo - *with installed child seat*

**In Universal Julie Emulator
solder jumpers J1, J2 J3, J4 and J7**

Available as Universal Julie Emulator
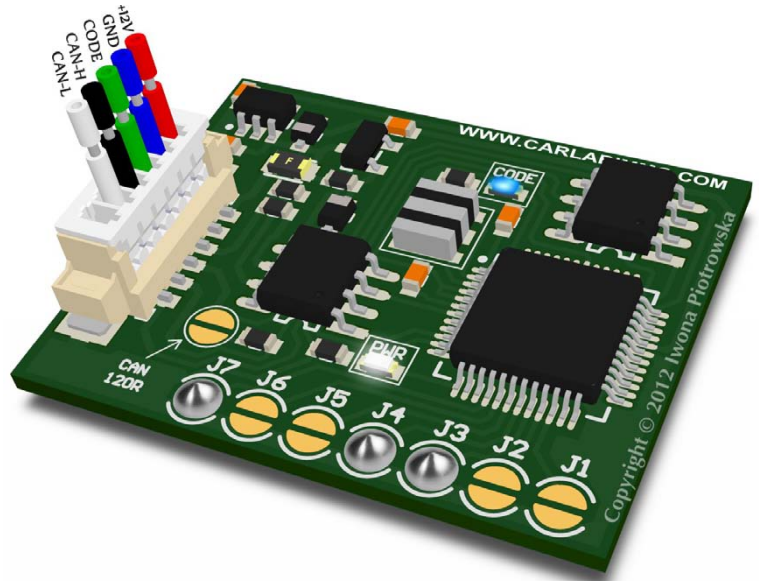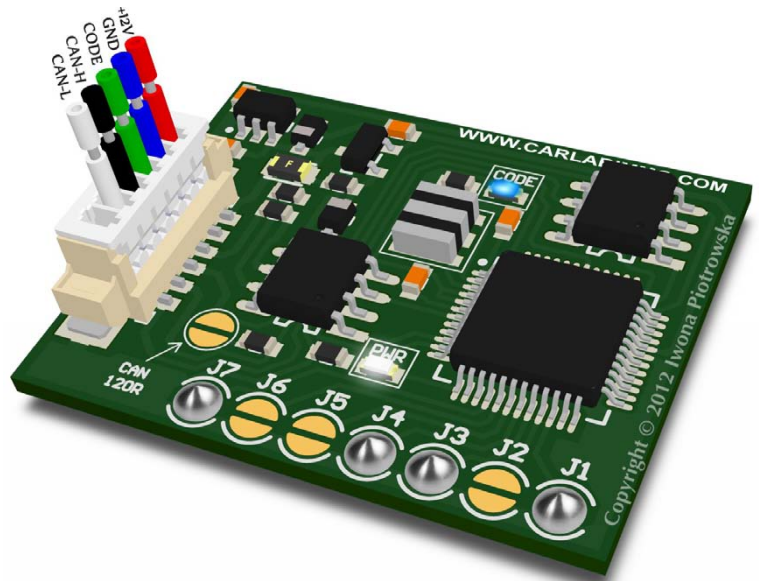(Seat Occupancy Sensor program no. 15)
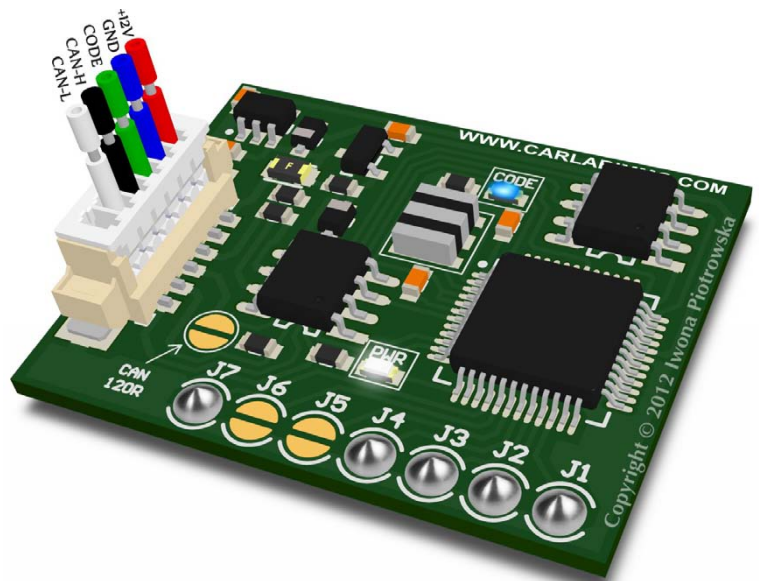
USE

Fiat Stilo

No.16 Mercedes
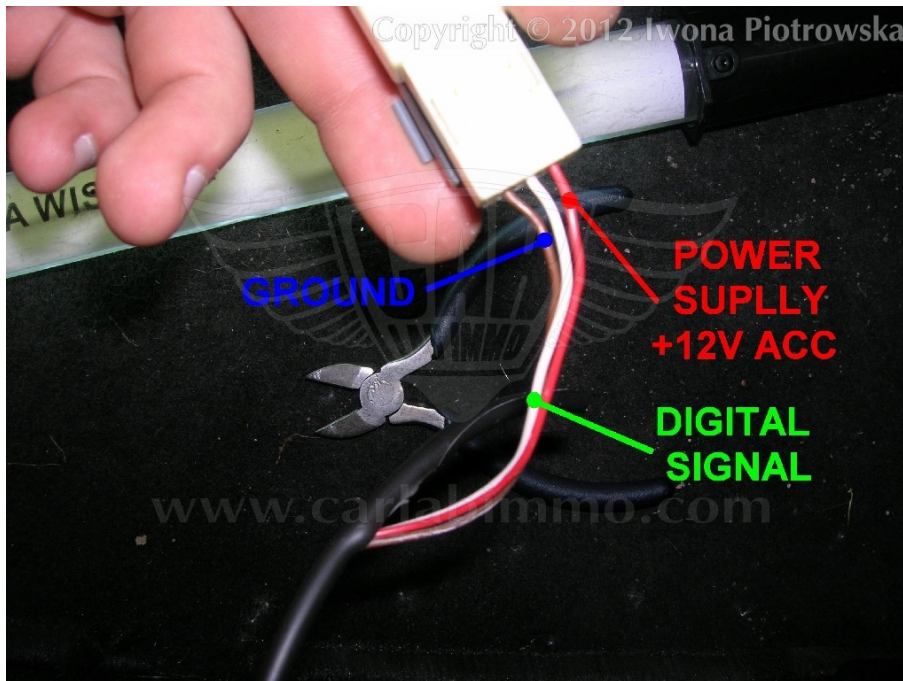
**In Universal Julie Emulator
solder jumpers J5 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 16)

USE
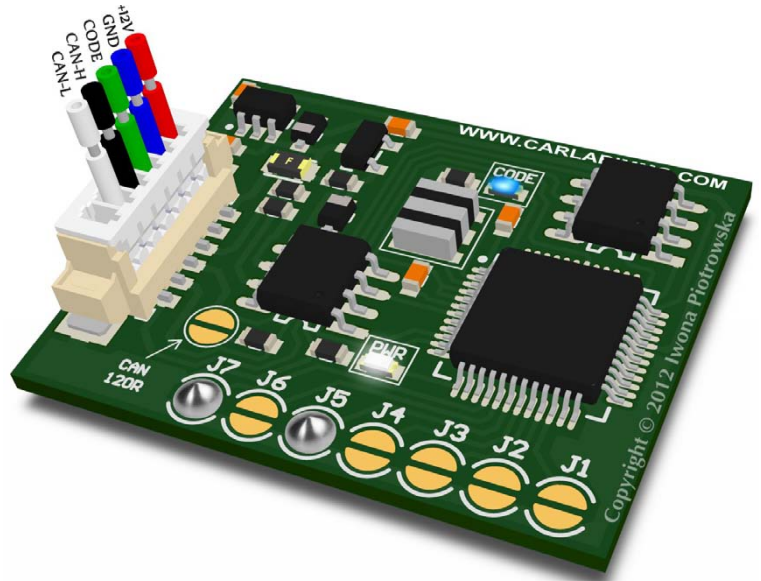
**- E-class W211 from 2004 to 2007 Temic
- SL W230 models the year 2004 only
- SLK W171 from 2004 to 2011**

No.17 Mercedes

**In Universal Julie Emulator
solder jumpers J1, J5 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 17)

USE

**- E-class W211 from 2003 to 2007 Bosch controller
- C-class W203 from 2006 to 2007
- CLS W219 from 2005 to 2010
- CLK W209 from 2006 to 2009
- S-class W220 from 2002 to 2005
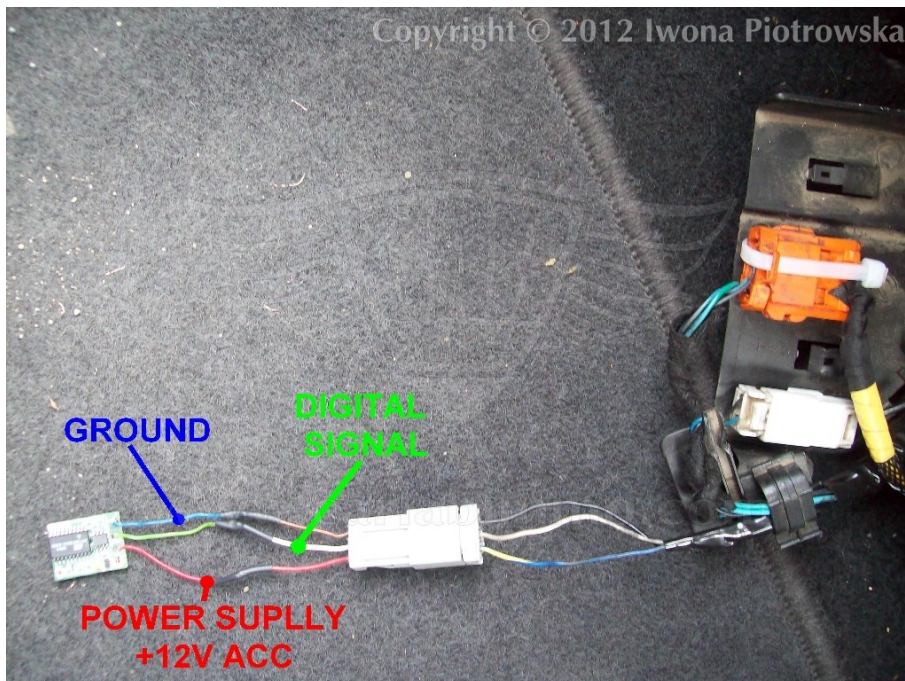- S-class W221 the year 2006 only**

No.18 Mercedes
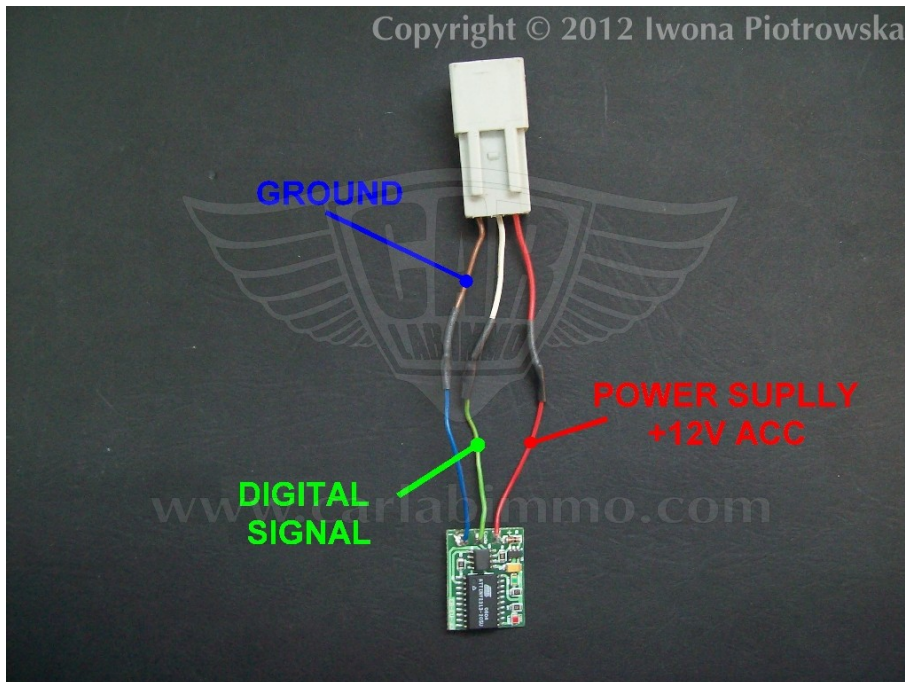
**In Universal Julie Emulator
solder jumpers J2, J5 and J7**

Available as Universal Julie Emulator
(Seat Occupancy Sensor program no. 18)

USE
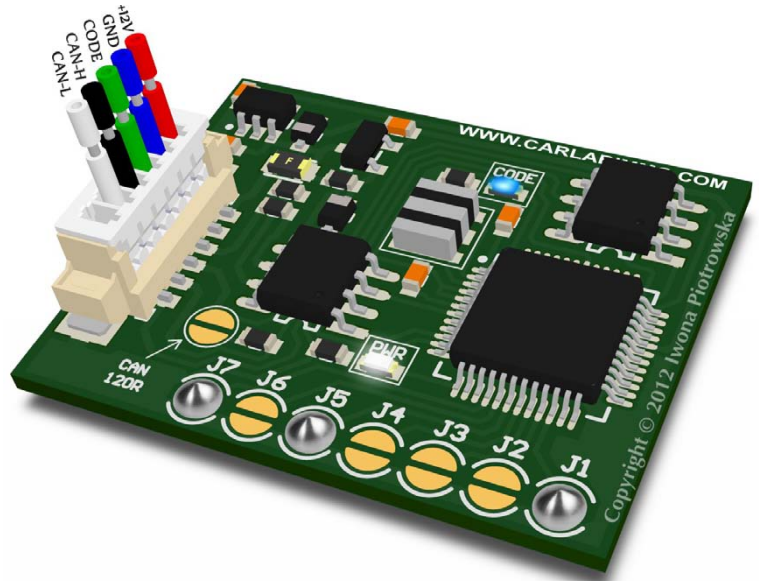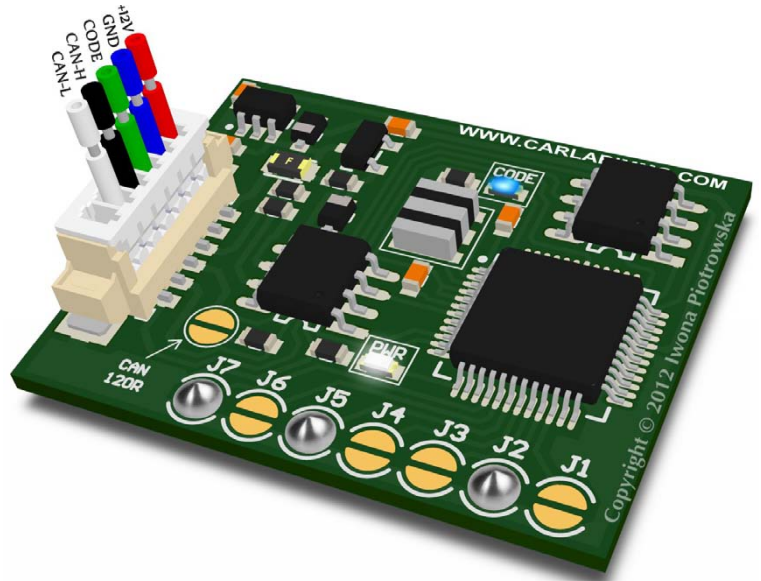
E-class W211 from 2002 to 2003 with airbag control unit:

Temic - 002 820 35 26
Bosch - 002 820 29 26, 0 285 001 441

Tachometer tester programs

USE

You can use it to turn on the instrument cluster on the table in order to diagnose faults. After connecting the emulator to instrument cluster, most of instrument cluster segments are displayed making it easier to locate damaged areas.

Emulator is reusable!

Tested on tacho:

Audi Q7 and A6
Citroen C4 Picasso
EMF Display
Renault Kangoo 3 Display
Renault Scenic II, Espace IV Tacho
Renault Scenic II Full
Renault Scenic III + Navi
VW Passat B6

Audi Q7 and A6

**In Universal Julie Emulator
solder jumpers CAN120R, J2, J4 and J6**

Available as Universal Julie Emulator
(Tachometer tester program no. 1)
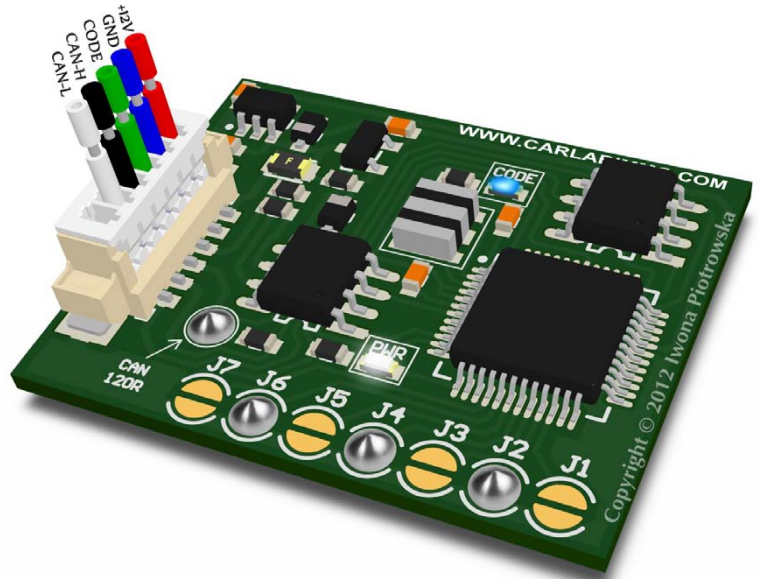
Connecting to grey socket

+12V ACC	15 pin
GND	14 pin
CAN-L	1 pin
CAN-H	2 pin

Citroen C4 Picasso

**In Universal Julie Emulator
solder jumpers CAN120R, J1, J2, J4 and J6**

Available as Universal Julie Emulator
(Tachometer tester program no. 2)

Connecting to yellow socket

+12V ACC	26 pin
GND	23 pin
CAN-L	13 pin
CAN-H	9 pin

EMF Display

**In Universal Julie Emulator
solder jumpers CAN120R, J3, J4 and J6**

Available as Universal Julie Emulator
(Tachometer tester program no. 3)

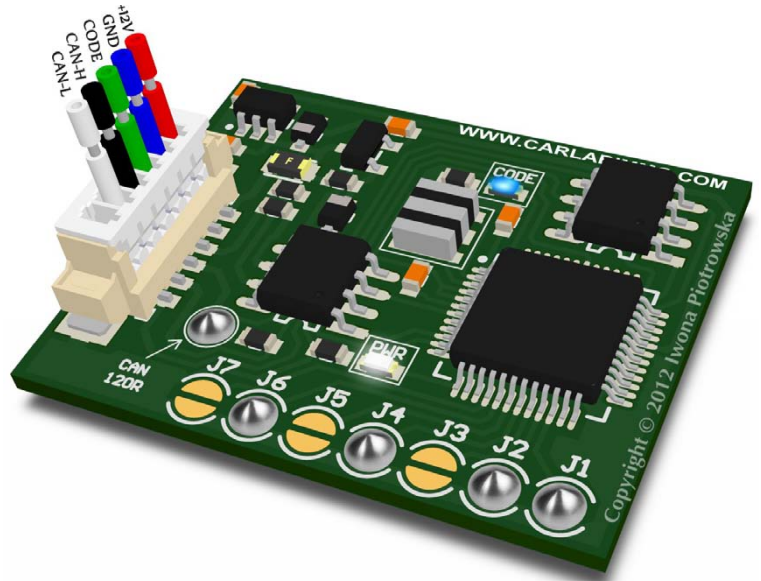**Connecting to brown socket**

+12V ACC	1 pin
GND	3 pin
CAN-L	7 pin
CAN-H	9 pin

Renault Kangoo III Display

**In Universal Julie Emulator
solder jumpers CAN120R, J1, J3, J4 and J6**

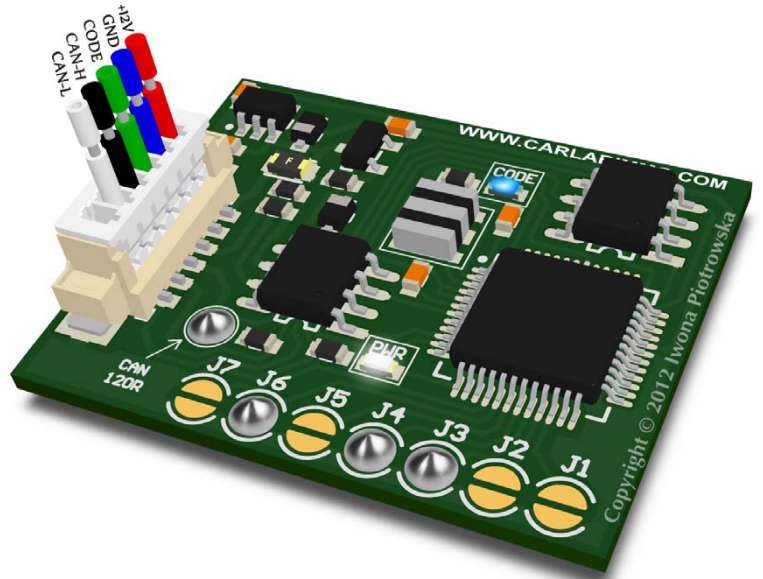Available as Universal Julie Emulator
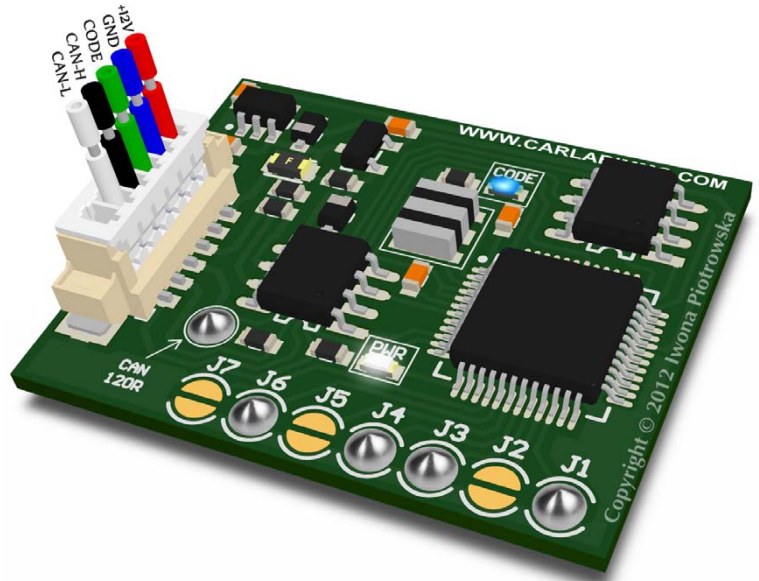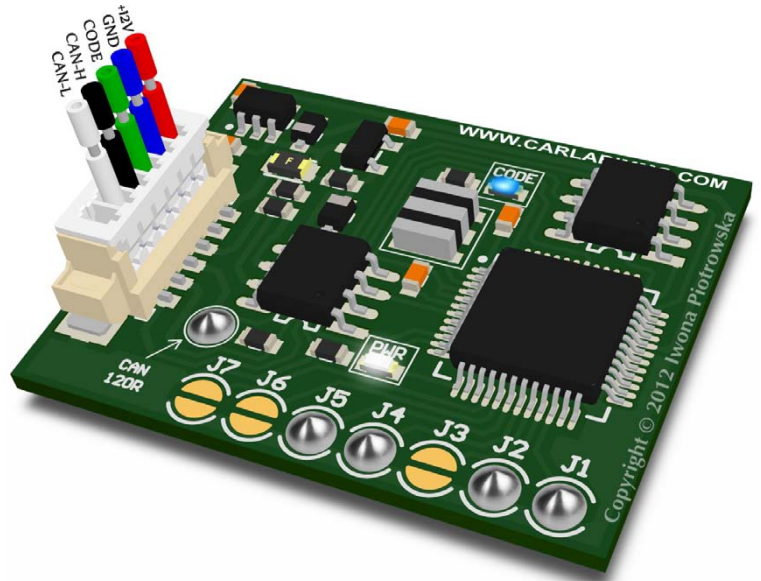(Tachometer tester program no. 4)

Connecting to display socket

+12V ACC	**3 pin**
GND	**12 pin**
CAN-L	**15 pin**
CAN-H	**16 pin**

Renault Scenic II, Espace IV Tacho

**In Universal Julie Emulator
solder jumpers CAN120R, J1, J2, J4 and J5**

Available as Universal Julie Emulator
(Tachometer tester program no. 5)

Connecting to grey socket

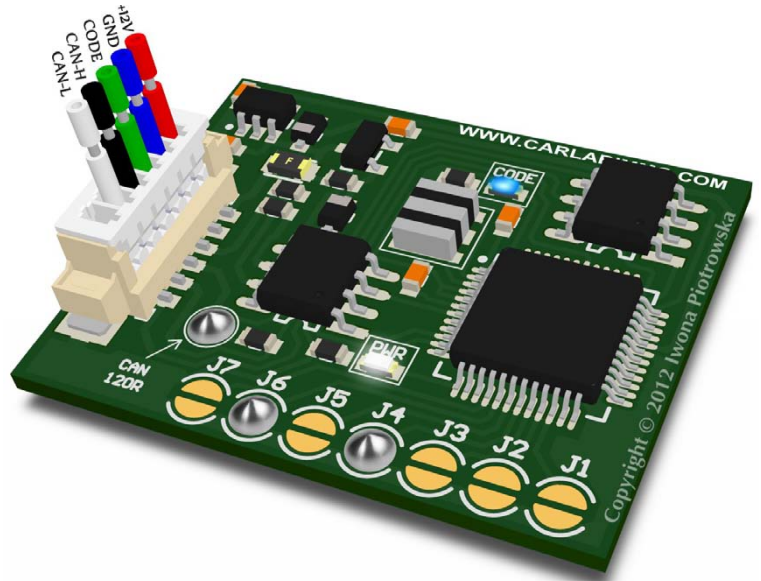|	
+12V ACC	1 pin
GND	2 pin
CAN-L	29 pin
CAN-H	30 pin

Renault Scenic II, Espace IV Full

In Universal Julie Emulator
solder jumpers CAN120R, J4 and J6

Available as Universal Julie Emulator
(Tachometer tester program no. 6)

Connecting to grey socket

+12V ACC	1 pin
GND	2 pin
CAN-L	29 pin
CAN-H	30 pin

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Renault Scenic III + Navi

**In Universal Julie Emulator
solder jumpers CAN120R, J1, J4 and J6**

Available as Universal Julie Emulator
(Tachometer tester program no. 7)

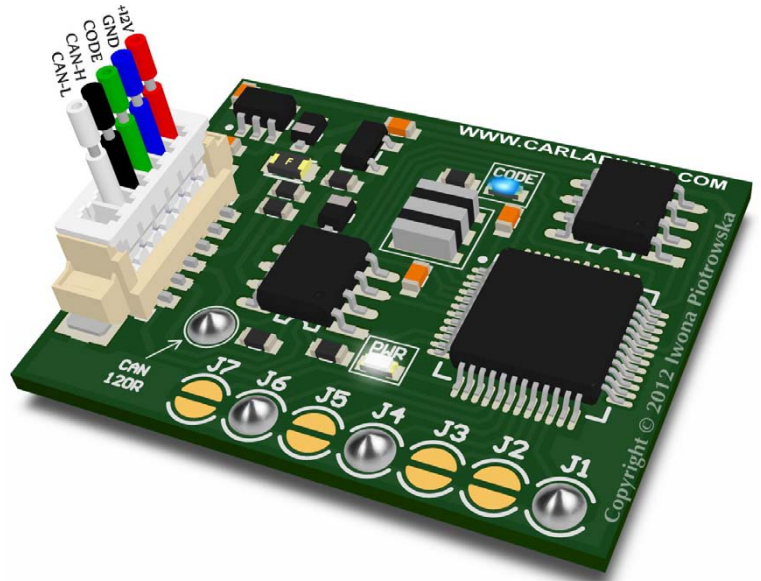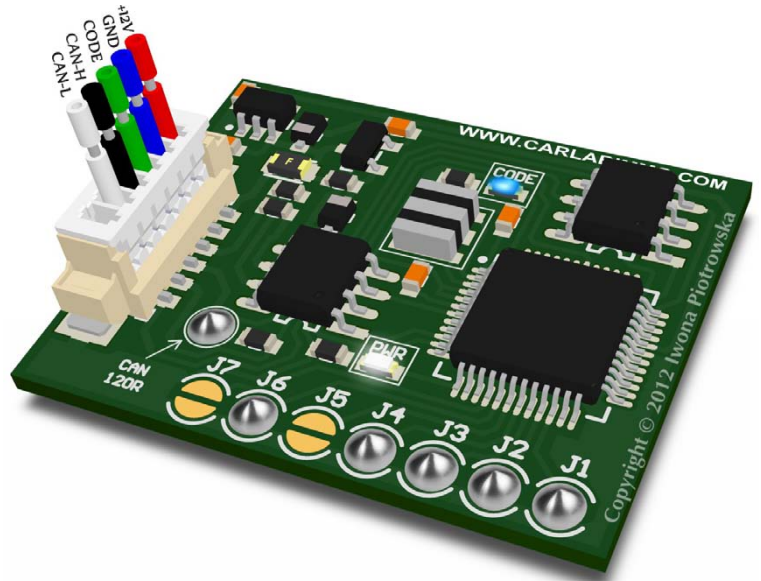**Connecting to grey socket of tacho**

+12V ACC	2 pin
GND	3 pin
CAN-L	11 pin
CAN-H	12 pin

VW Passat B6

**In Universal Julie Emulator
solder jumpers CAN120R, J1, J2, J3, J4
and J6**

Available as Universal Julie Emulator
(Tachometer tester program no. 8)

Connecting to blue socket

+12V ACC	31 pin
GND	16 pin
CAN-L	29 pin
CAN-H	28 pin

Warning!!!

Due to possible construction changes of cars, check signals with multimeter in the ECU plug.

www.carlabimmo.com

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You can buy our products and obtain technical support from our distributor. Find a distributor near you by clicking on the link: ***www.carlabimmo.com/our-partners***