

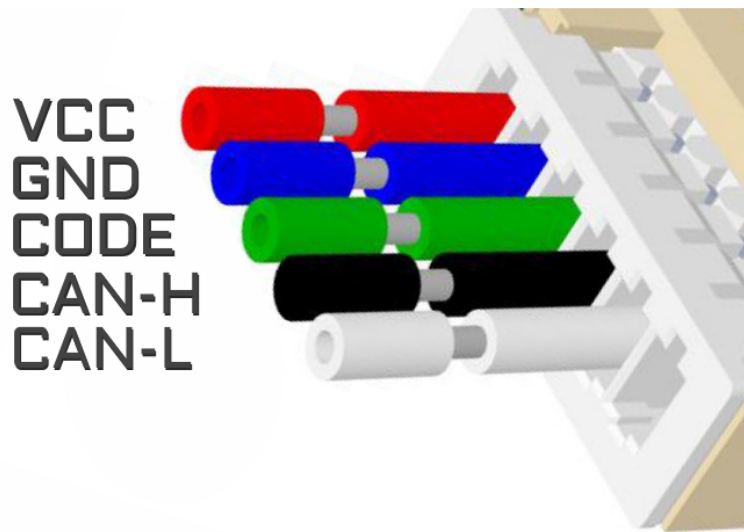
[Back to Main Page](#) 

Julie - Universal Car Emulator Programs:

Mercedes CR1 with CAN WSP.....2

Program	Use
Mercedes CR1 with CAN WSP	<ul style="list-style-type: none"> • Vito 2.2 Cdi 5-socket ECU • A-class 1.7 Cdi 5-socket ECU • EDC 1-socket ECU GO TO VIDEO • Bosch ME1.0 ECU GO TO VIDEO • Bosch ME2.0 ECU with HC11E9 GO TO VIDEO • E-class Lucas 4-socket ECU • A-class VDO MSM ECU 1.4 1.6 1.9 gasoline

Wiring colour codes

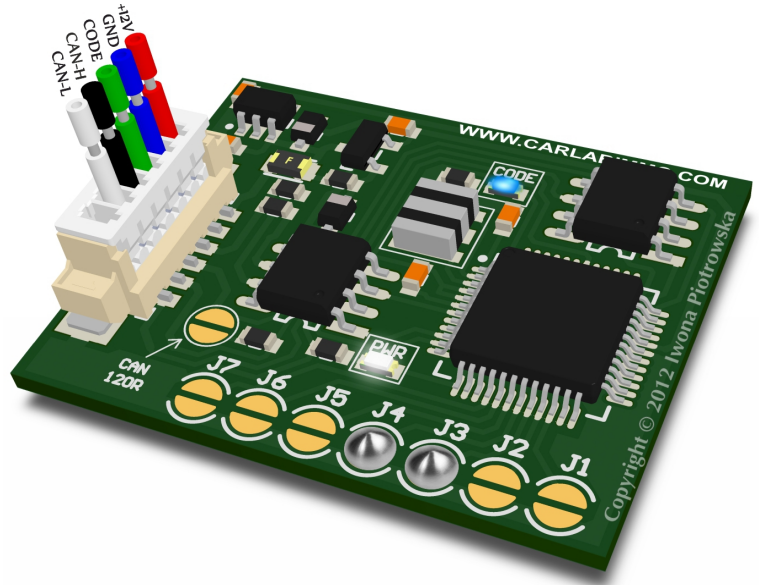


The LED behavior

- no jumpers – diagnostic mode - it flashes every second
 - adjusting to the ECU – flashing 0,1 sec
- after adjusting it lights constantly and blinks every other second

Mercedes CR1 with CAN WSP

In Universal Julie Emulator
solder jumpers J3 and J4



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

[GO TO VIDEO](#)

Bosch ME1.0 ECU with HC11E9

[GO TO VIDEO](#)

Bosch ME2.0 ECU with HC11E9

[GO TO VIDEO](#)

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 the 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



Back to Main Page

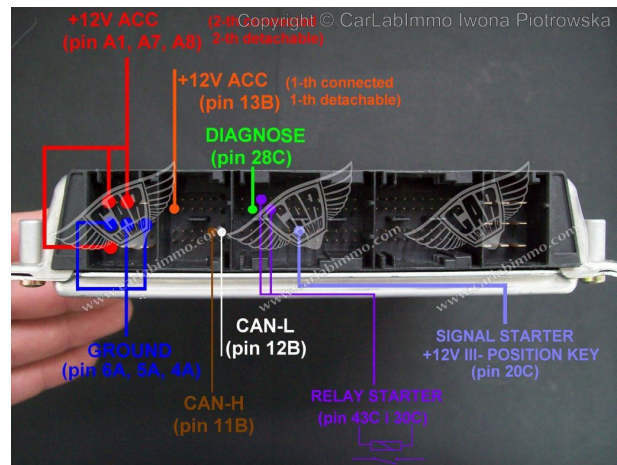
Mercedes CR1 with CAN WSP

Vito 2.2 CDi 5-socket ECU

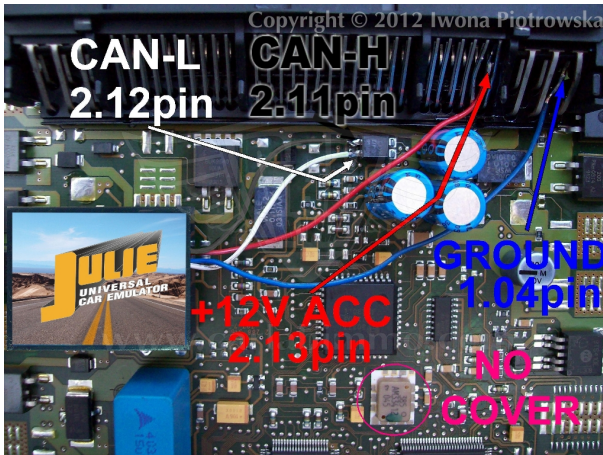


In Mercedes Vito 2.2 Cdi, the starter does not turn, there is a **START ERROR** on the dashboard.

ECU is located on the passenger side



Connecting emulator to ECU



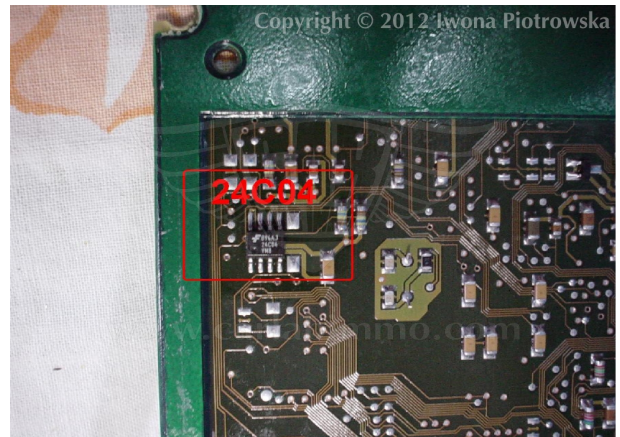
ACC 2.13 pin

GND 1.04 1.05 1.06 pin

CAN-L 2.12 pin

CAN-H 2.11 pin

Find **24C04** memory



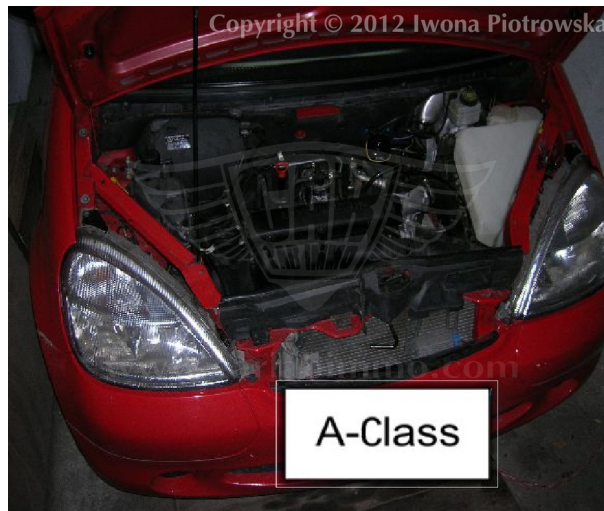
```
Copyright © 2012 Iwona Piotrowska  
0x120: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x130: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x140: 50 AE 00 00 4F FD 00 00 50 AE 00 00 4F FD 00 00 P@.Oy..P@.Oy..  
0x150: 50 AE 00 FF 12 00 00 00 FF FF FF FF FF FF FF FF FF FF P@.....  
0x160: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x170: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x180: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x190: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x1A0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x1B0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x1C0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x1D0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF  
0x1E0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF 2A 4E *  
0x1F0: 00 00 FF FF 00 9C D4 13 56 01 f2 B0 52 B0 52 B0 ...s0.V.R.R*
```

from 1EE to 1F9 write values
2A 4E 00 00 FF FF 00 9C D4 13 56 01

In addresses **1EE** to **1F9**, write 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 dashboard

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

Connecting emulator to ECU

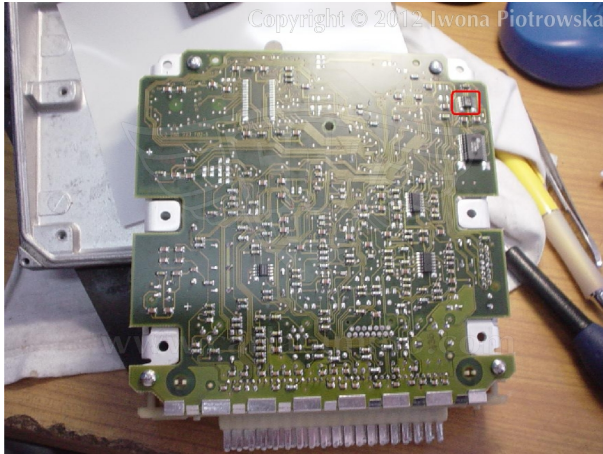
ACC 2.13 pin

GND 1.04 1.05 1.06 pin

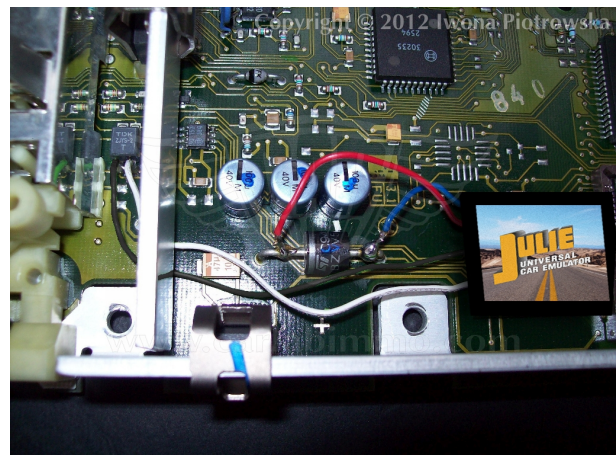
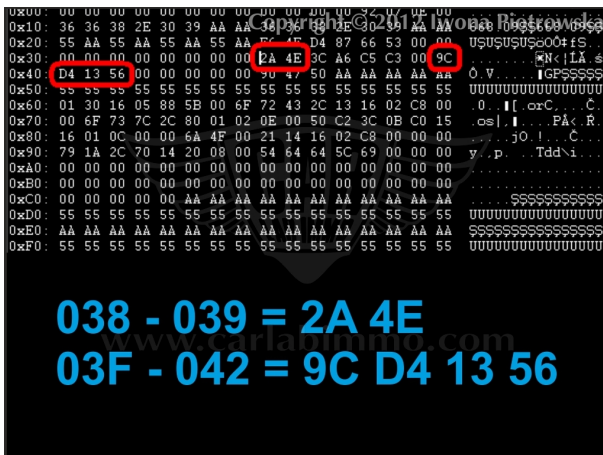
CAN-L 2.12 pin

CAN-H 2.11 pin

Find **24C04** memory



In 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
 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.

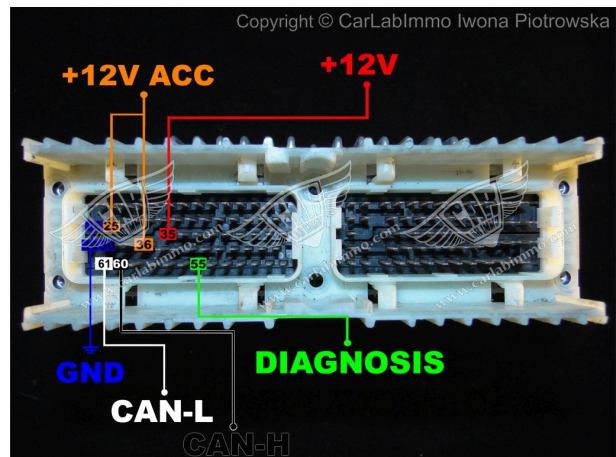
If there are problems to start the car, add ACC onto pin 13 of ECU (take it from second leg of diode). Then, cut off pin 13 from the ECU plug

Disconnect CAN from WSP!!!

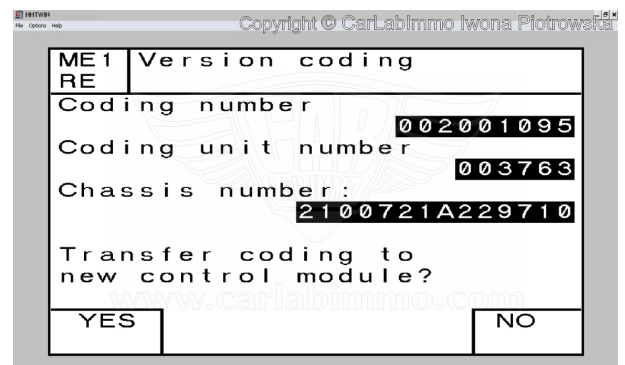
Bosch ME1.0 ECU with HC11E9 processor



There is a Motorola **E28B HC11E9** processor in the ECU



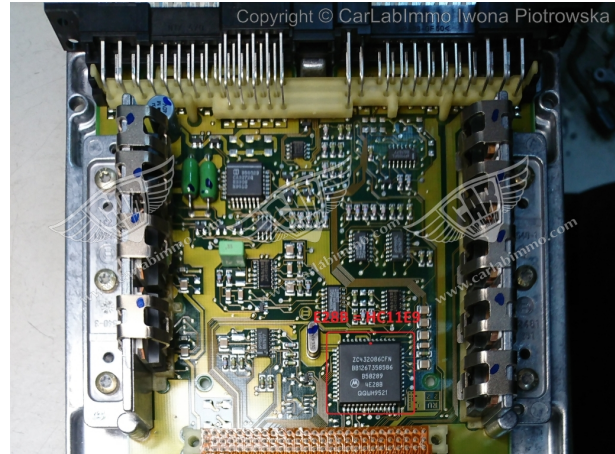
1. Read the coding number using **Star Diagnosis** tool



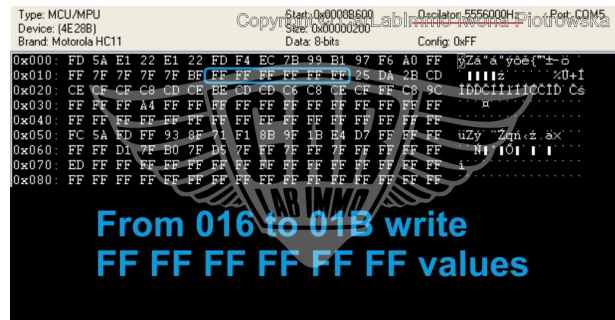
Back to Main Page

2. Read the content of **Motorola E28B = HC11E9** (marked in the picture) using X-Prog programmer

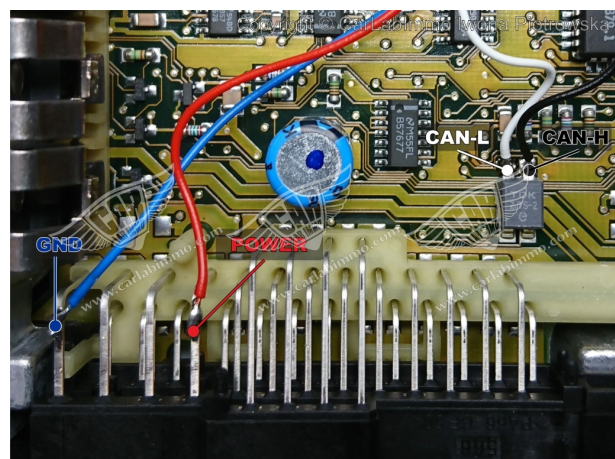
Set the oscillator to 5556 KHz!



and write **FF FF FF FF FF FF** values in addresses from **016** to **01B**



3. Connect Julie Emulator to the ECU



After connecting the emulator to the ECU, you need to carry out personalization with HHT or Star Diagnosis diagnostics tools. Then, start the engine, and let the car run for 60 seconds for the coding to complete.

EXAMPLE OF PERSONALISATION

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

Bosch ME2.0 ECU with HC11E9

There is a Motorola 4E28B HC11E9 52PLCC processor in the ECU

After connecting the emulator to the ECU, you need to carry out personalization with HHT or Star Diagnosis diagnostics tools. Then, start the engine, and let the car run for 60 seconds for the coding to complete.

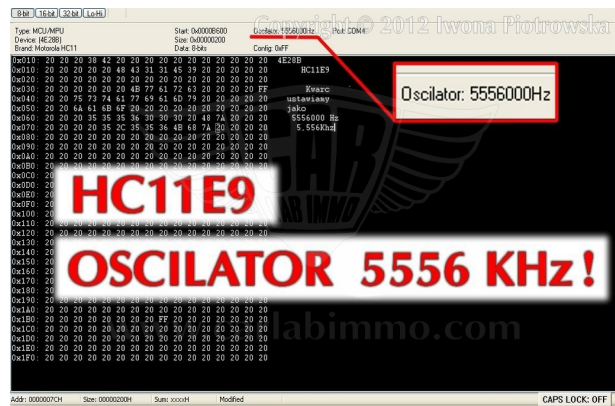
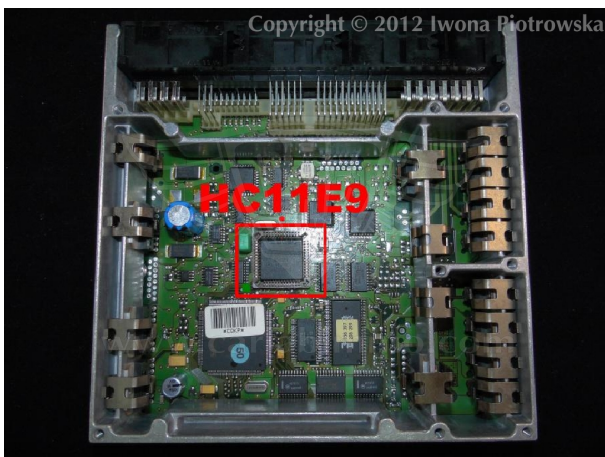
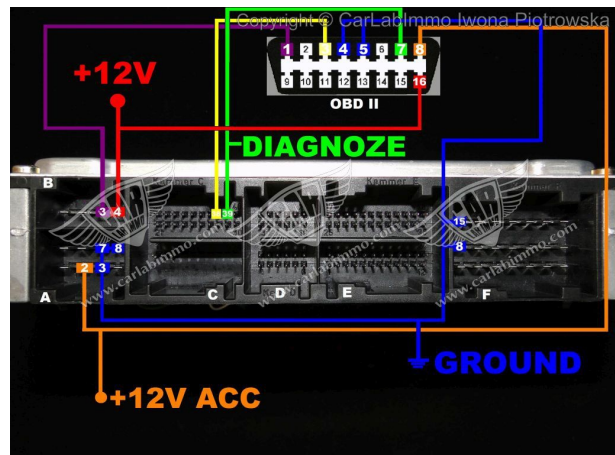
EXAMPLE OF PERSONALISATION

Disconnect CAN from WSP!!!

If the car sometimes doesn't start after the personalisation (the LED on the emulator blinks fast), cut +12V from the ECU and connect it to +12V ACC (ignition)



Click on the thumbnail to watch the video

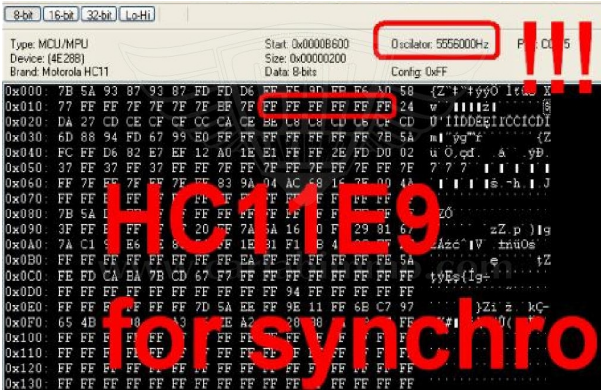


Before reading the content of the memory, set the oscillator to 5556000Hz!

Back to Main Page

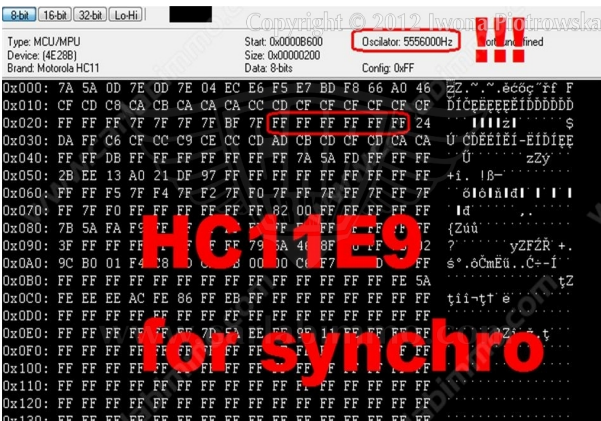
Mercedes CR1 with CAN WSP

1st CHANGE



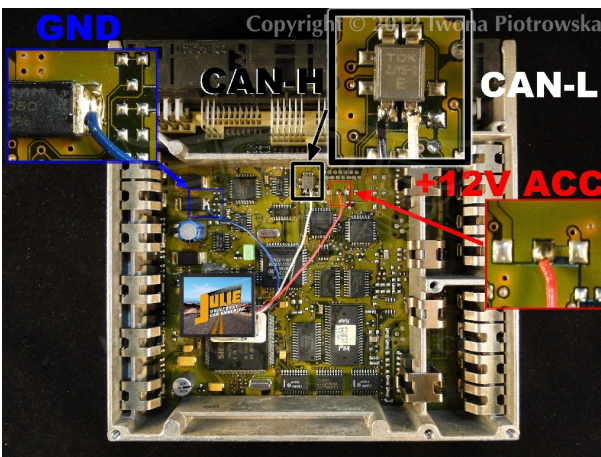
In addresses from **019** to **01E** (ETL 619 to 61E), write **FF** values

2nd CHANGE



In addresses from **029** to **02E** write **FF** values

Connecting the emulator to the ECU



- +12V ACC** A2 pin
- GND** A3 pin
- CAN-L** D12 pin
- CAN-H** D11 pin

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

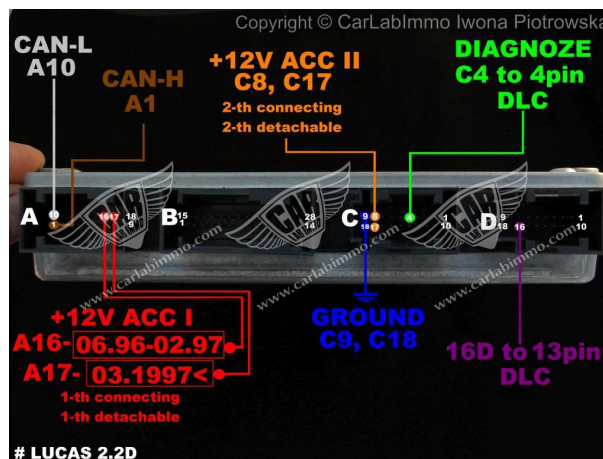
Mercedes E-class 2.0 diesel 1996
Lucas A0195459432 ed013 sw25.96 fd30.96

ECU is located in the engine compartment on the passenger's side

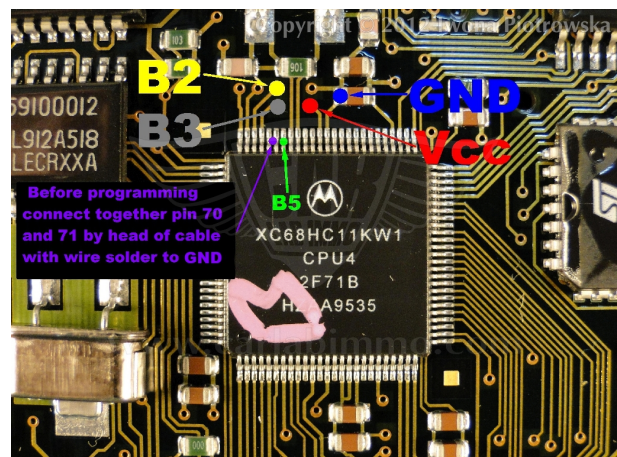
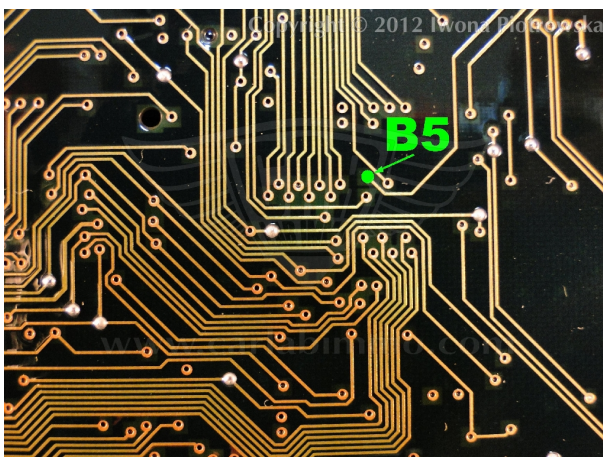
After connecting the emulator, you need to carry out personalization with HHT or Star Diagnosis diagnostics tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

EXAMPLE OF PERSONALISATION

Disconnect CAN from WSP!!!



Motorola **HC11KW1** quartz **8MHz** – connection of **X-Prog** programmer to Motorola



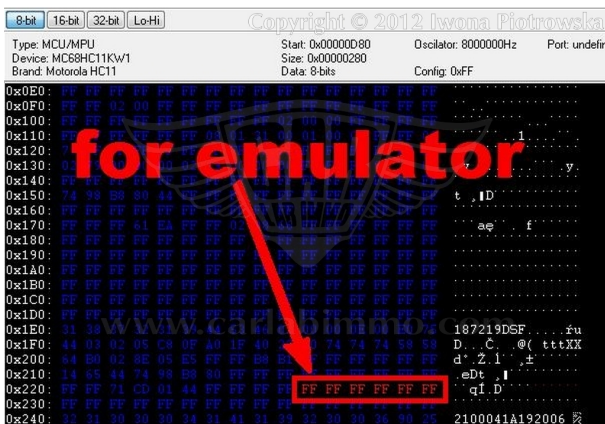
Back to Main Page

Mercedes CR1 with CAN WSP

Before making a 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.

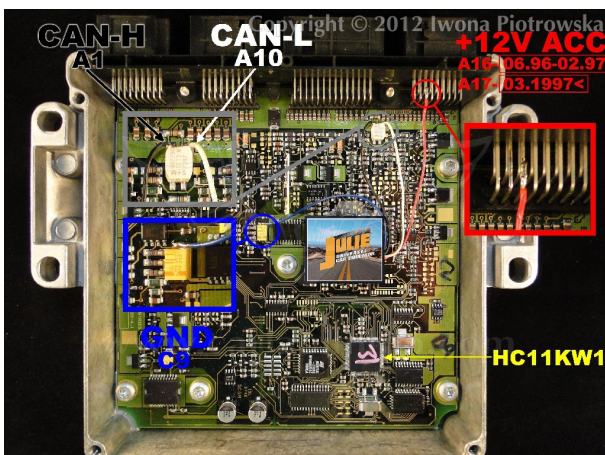
pin 63	VSS ground	GND
pin 64	VDD +5V	A3 pin
pin 69	reset	B5
pin 70	Mod B to GND	B4
pin 71	Mod A to GND	GND
pin 72	RXT	B3
pin 73	TXD	B2

Change to **HC11KW1** processor



In address from **22A** to **22F** write **FF** values

Connecting emulator to ECU



+12V ACC A16 pin

GND C9 pin

CAN-L A10 pin

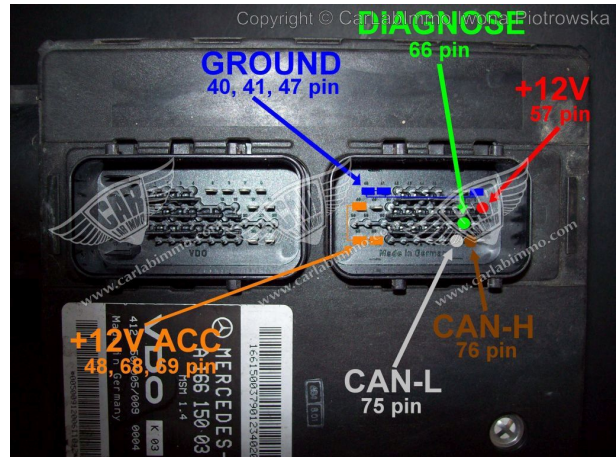
CAN-H A1 pin

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

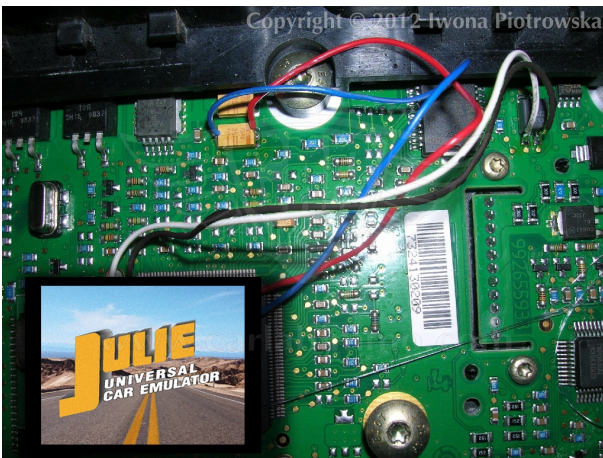
After connecting the emulator, you need to carry out personalization with HHT or Star Diagnosis diagnostics tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

EXAMPLE OF PERSONALISATION

Disconnect CAN from WSP!!!



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



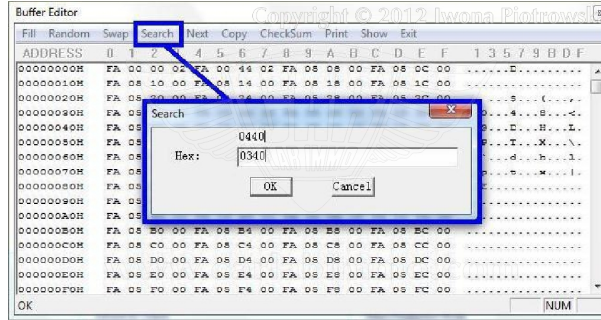
Connecting emulator to ECU

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

To read and make changes to the memory, use **Wellon** programmer

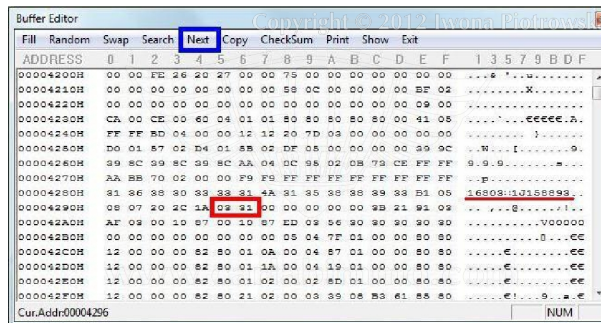
Back to Main Page

Mercedes CR1 with CAN WSP



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 31** (or **04 31**)



Warning!!!

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



All rights reserved.

Unauthorized copying, hiring, lending, public performance will be punished!

We state that we are the only authentic authors of this manual. We possess copyright of this publication. Any trials of unauthorized copying, hiring, quoting prohibited!!! Both service and advertisement constitute copyright and they are the subject to the protection in accordance with the Act from 4th Feb. 1994 on Copyright and Related Laws (Statute Book no. 24 position 93) and protection on the basis of the Act from 8th June 1993 on combating an unfair competition (Statute Book no. 47 position 211)

www.carlabimmo.com

Last updated 07.08.2018