Mercedes CR1 with CAN WSP Emulator

 Red Cable: +12V
 Blue Cable: GND

 Green Cable: CODE
 Black Cable: CAN-H

 White Cable: CAN-L
 After adjusting, LED-- It lights up constantly, and blink every two seconds

In Universal 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

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







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



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

Connecting emulator to ECU



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!!!

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

Universal Auto Immo Emulator User Manual --- Mercedes CR1 with CAN WSP



In addresses from 029 to 02E write FF values

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.

2nd CHANGE

Universal Auto Immo Emulator User Manual --- Mercedes CR1 with CAN WSP

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.

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

Solder the wire to the needle that you then connect to GND.



Change to **HC11KW1** processor

In address from 22A to 22F write FF 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.

Disconnect CAN from WSP!!!



A-class VDO MSM ECU

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



Connecting emulator to ECU



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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)

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After soldering, you carry out personalisation with the Star Diagnosis.

Disconnect CAN from WSP!!!

Warning!!!

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