WSP IMMO EMULATOR (MANUAL)
SPRINTER/VITO

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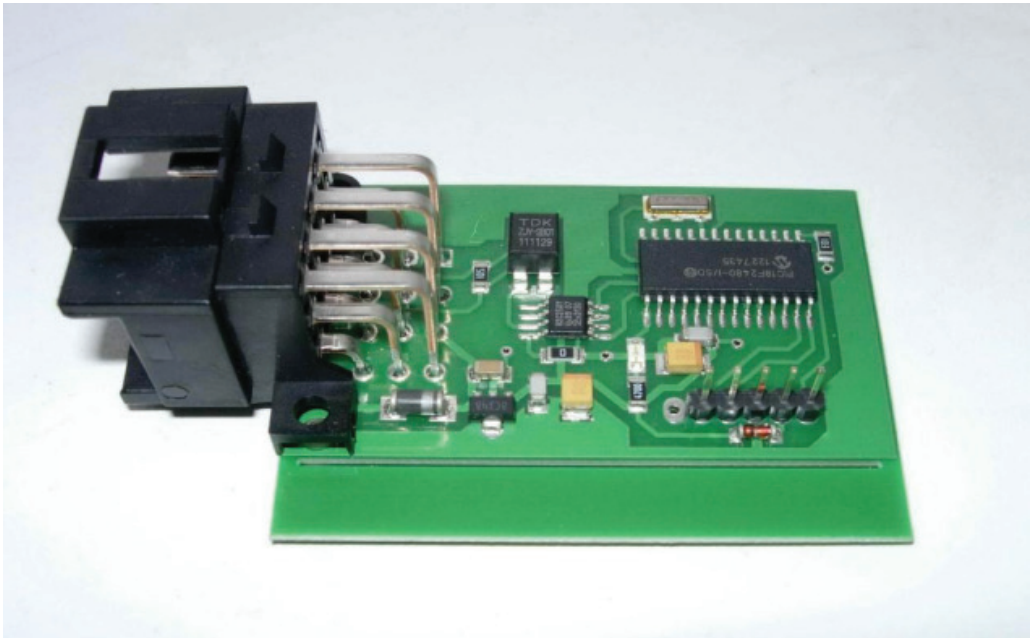
info@mbkeyprog.com

SPRINTER/VITO (MANUAL)

!!! FOR DIAGNOSTIC USE ONLY !!!

Supported models:
Mercedes Sprinter
Mercedes Vito

This product is intended for installation INSTEAD original WSP immobilizer. It emulates CAN bus communication between WSP immo box and ECU (supported systems: CDI1 and CDI2).
ECU EEPROM data changes require before the installation of emulator.
We recommend to use it in case of «Start Error» reporting on Instrument Cluster.



Pic.1. WSP Emulator general view

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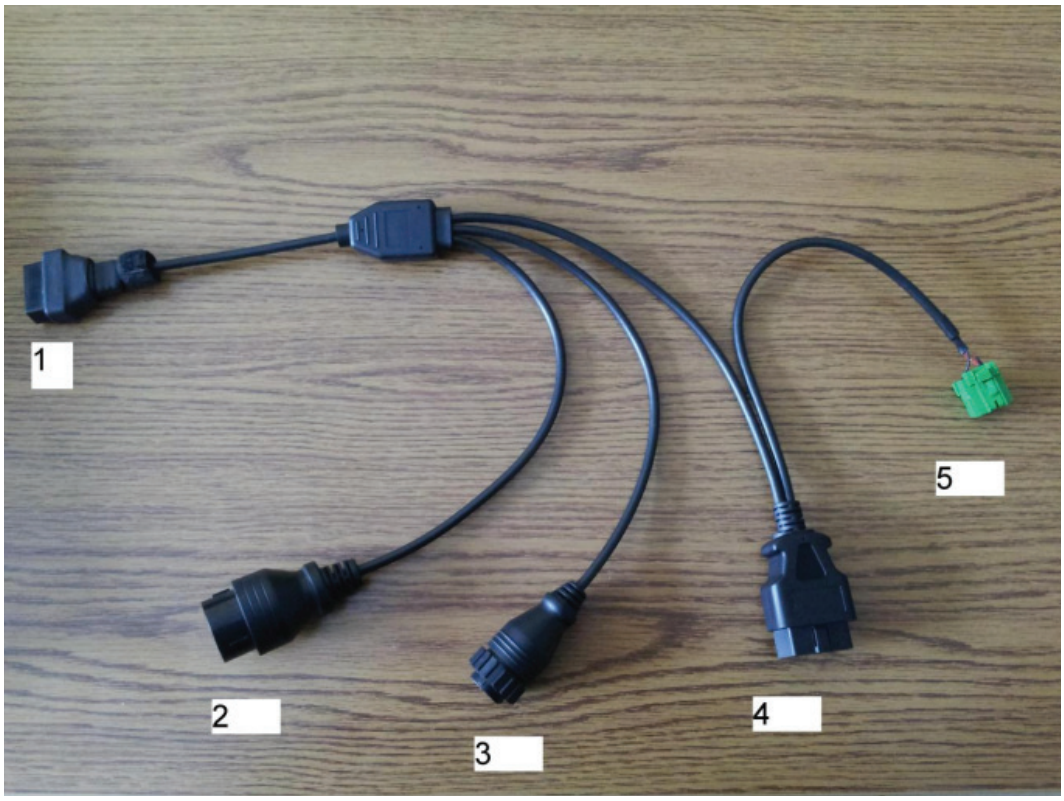
Modify ECU EEPROM data before emulator installing: you can do it manually or with our MB Keyprog-2 device and CR1-CR2 READER software.

The software reads and writes EEPROM areas of ECU CR1 and CR2 on Vito (638 model) and Sprinter (models 901.6, 902.6, 903.6, 904.6, 905.6) .
Use please the connector like in picture below:



Connectors purposes
1 – OBDII female – connect it to the OBDII male cable of MB Keyprog2 device.
Set micro switches to position as in the picture:

2 – 38 pin connector – for 38 pin DLC of Vito model
3 – 14 pin connector - for 14 pin DLC of Sprinter model
4 – OBDII male connector – for 16 pin (OBDII) DLC of Vito model
5 – not using with this software

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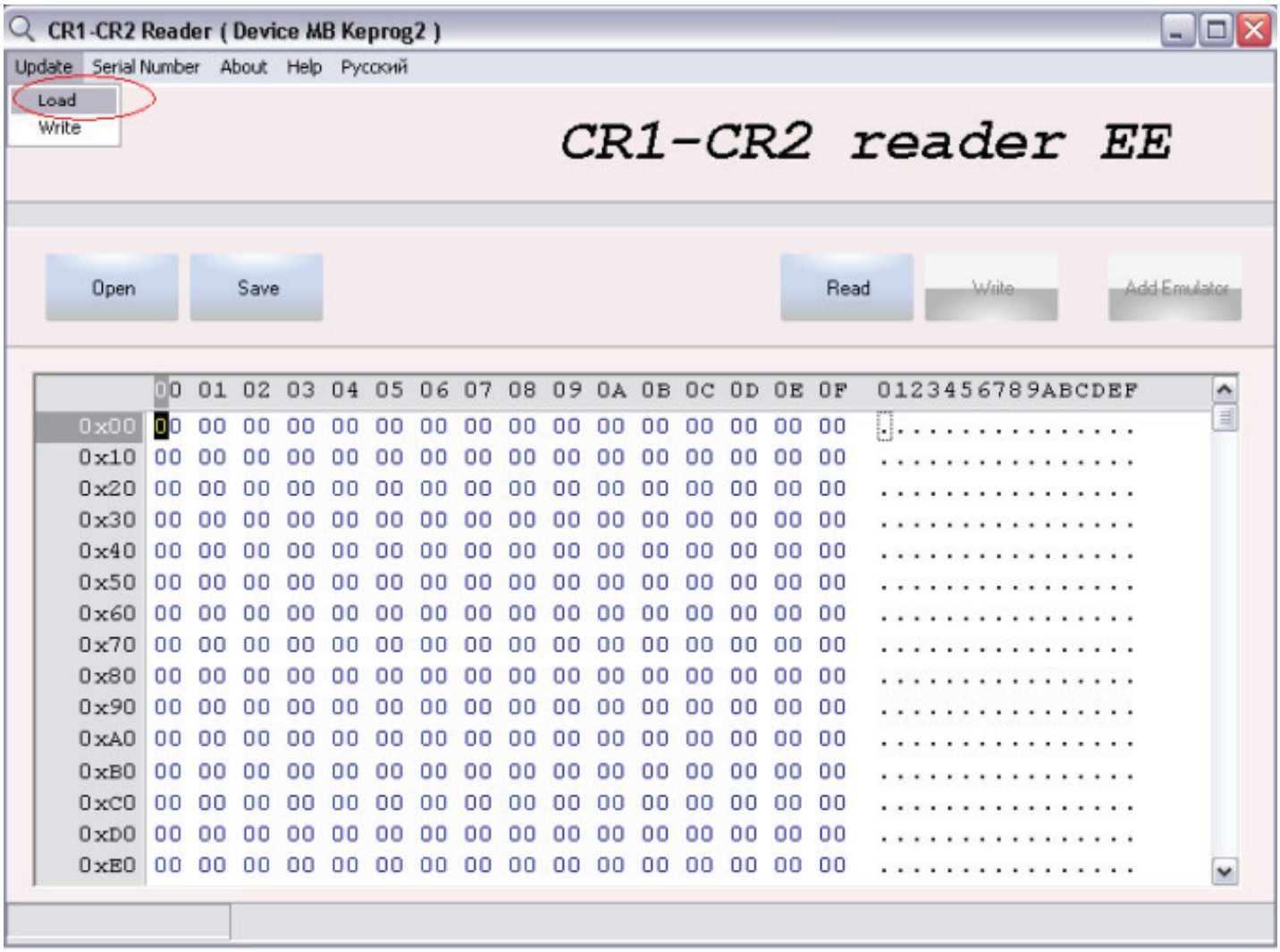
If you order this cables set you get it together with software CR1-CR2 READER:
Update your MB Keyprog-2 device from program window:



Press Update-Load (then provide a path to update file "upd8_cr1_cr2_mb_keyprog2.bin") then press again Update-Write and wait till it will be finished.

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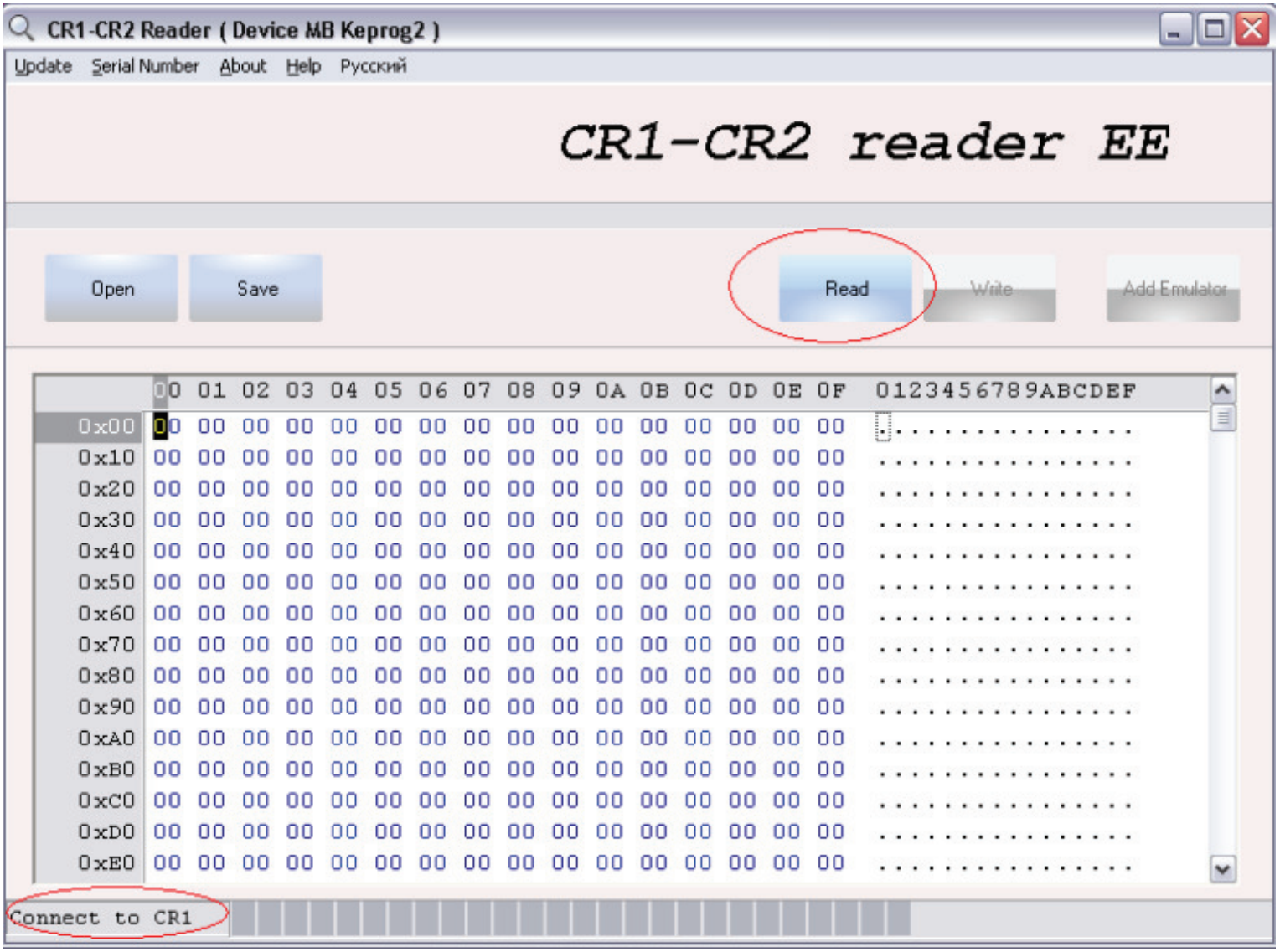
Connect your MB Keyprog-2 device (using OBDII + according cable from this set) to the car Diagnostic Link Connector (DLC). Turn ignition ON.
Press READ button.



At the bottom of the window you will see CONNECT TO CR1 message and progress bar goes on. First of all device trying to connect with CR1 ECU (EEPROM 24C04), then if it couldn't find it – with CR2 ECU (EEPROM 95P08).

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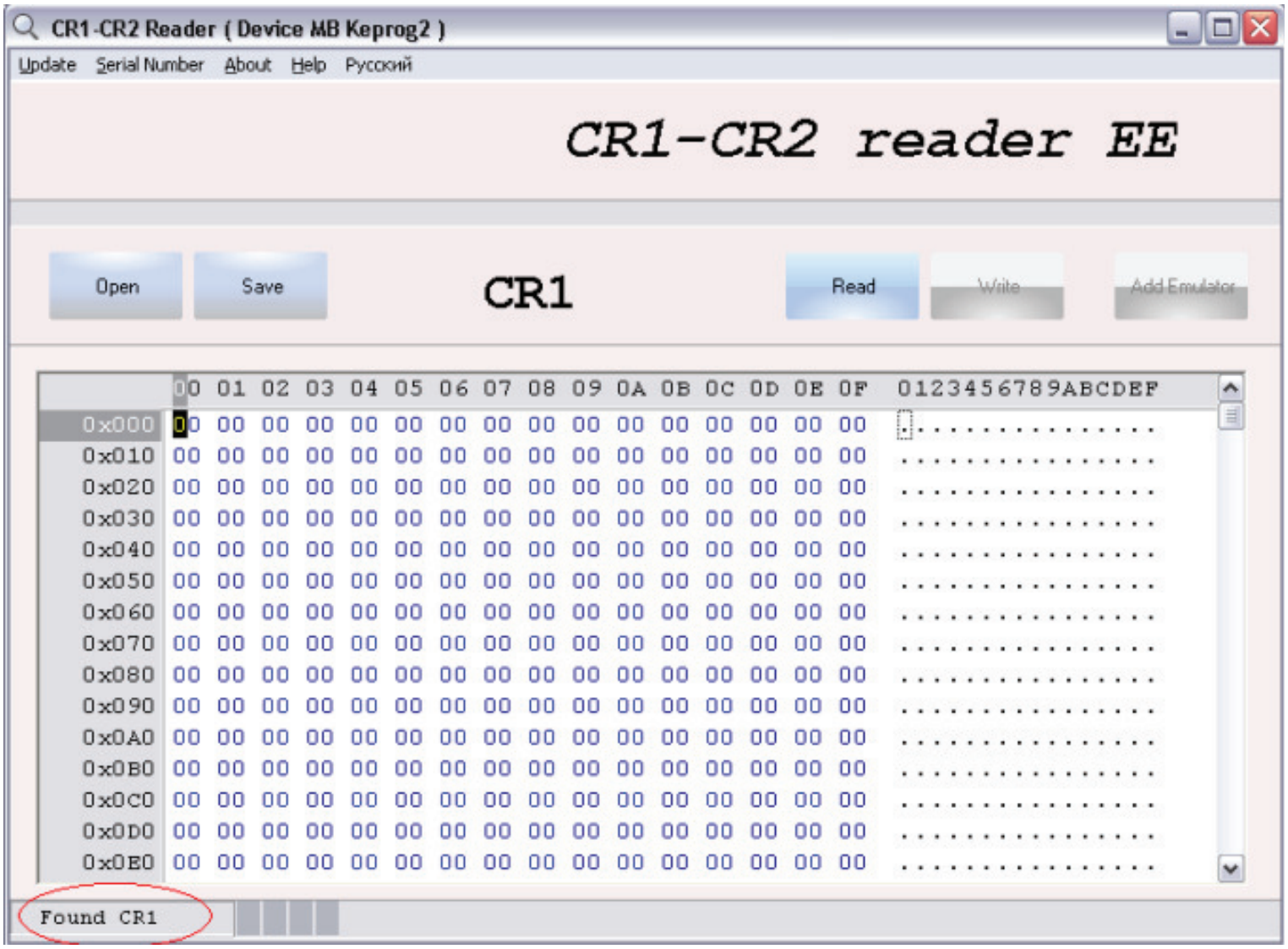
On this sample we found and connected with CR1 ECU – see message at the bottom of window:



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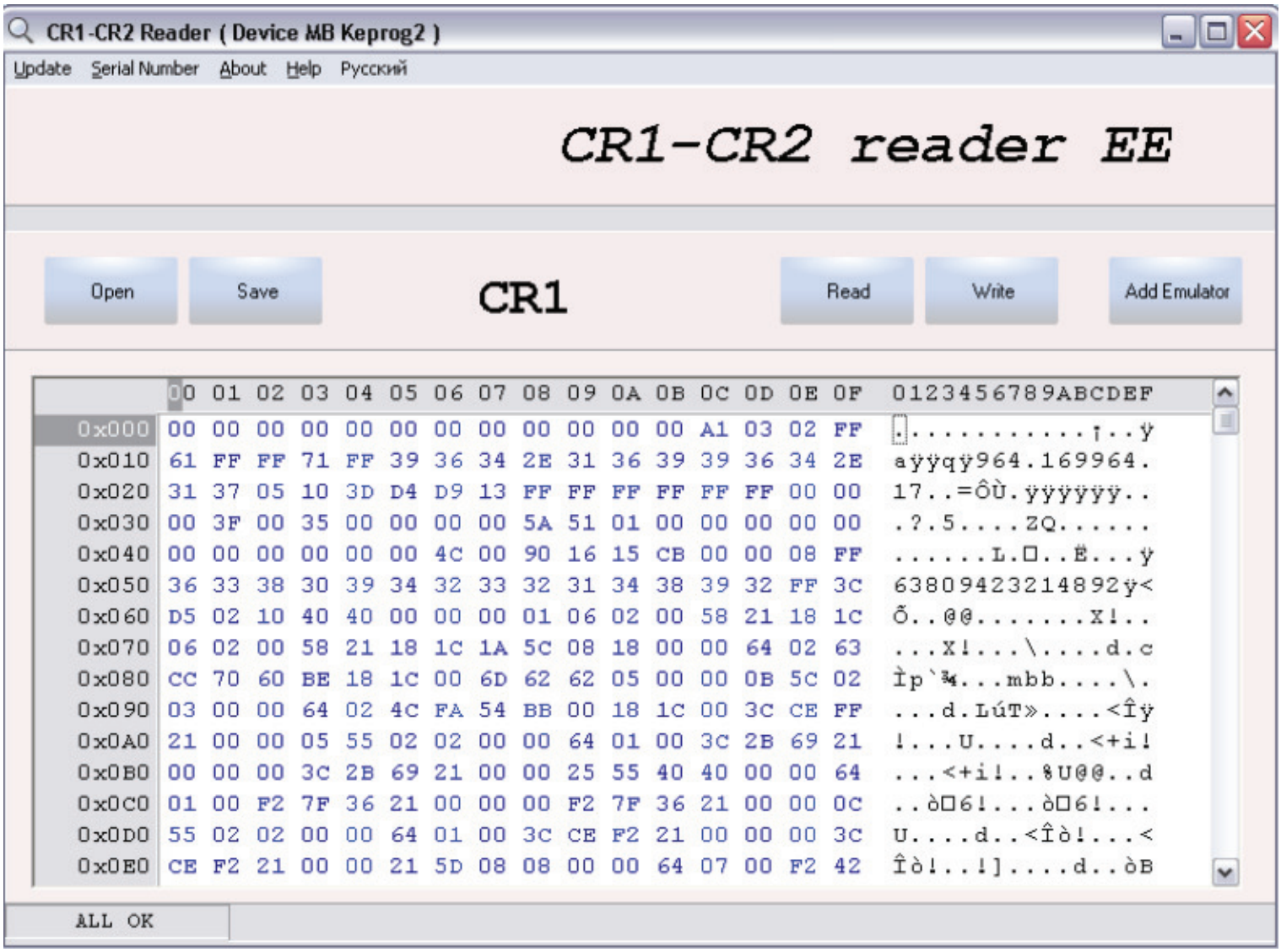
After reading will be finished you see EEPROM data in the program window:



	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0123456789ABCDEF
0x000	00	00	00	00	00	00	00	00	00	00	00	00	A1	03	02	FF	.....¡..ÿ
0x010	61	FF	FF	71	FF	39	36	34	2E	31	36	39	39	36	34	2E	aÿÿqÿ964.169964.
0x020	31	37	05	10	3D	D4	D9	13	FF	FF	FF	FF	FF	FF	00	00	17..=ÔÙ.ÿÿÿÿÿÿ..
0x030	00	3F	00	35	00	00	00	00	5A	51	01	00	00	00	00	00	.?.5....ZQ.....
0x040	00	00	00	00	00	00	4C	00	90	16	15	CB	00	00	08	FF	......L.□..Ë...ÿ
0x050	36	33	38	30	39	34	32	33	32	31	34	38	39	32	FF	3C	638094232148 92ÿ<
0x060	D5	02	10	40	40	00	00	00	01	06	02	00	58	21	18	1C	Õ..@@.......X!..
0x070	06	02	00	58	21	18	1C	1A	5C	08	18	00	00	64	02	63	...X!...\....d.c
0x080	CC	70	60	BE	18	1C	00	6D	62	62	05	00	00	0B	5C	02	Ìp`¾...mbb....\.
0x090	03	00	00	64	02	4C	FA	54	BB	00	18	1C	00	3C	CE	FF	...d.LúT»....<Îÿ
0x0A0	21	00	00	05	55	02	02	00	00	64	01	00	3C	2B	69	21	!...U....d..<+i!
0x0B0	00	00	00	3C	2B	69	21	00	00	25	55	40	40	00	00	64	...<+i!..%U@@..d
0x0C0	01	00	F2	7F	36	21	00	00	00	F2	7F	36	21	00	00	0C	..ò□6!...ò□6!...
0x0D0	55	02	02	00	00	64	01	00	3C	CE	F2	21	00	00	00	3C	U....d..<Îò!...<
0x0E0	CE	F2	21	00	00	21	5D	08	08	00	00	64	07	00	F2	42	Îò!..!]....d..òB

You can save these data to file - press SAVE button for it. We recommend to save it every time.
Program allows you to modify ECU EEPROM and save/write new dump via DLC.

Press ADD EMULATOR button. All necessary modifications will be done and new changed EEPROM will be written to the ECU automatically. After that you can remove original WSP immobilizer box from the car and connect WSP Emulator instead it. LED on emulator should ON if all power lines in immo connector are OK.

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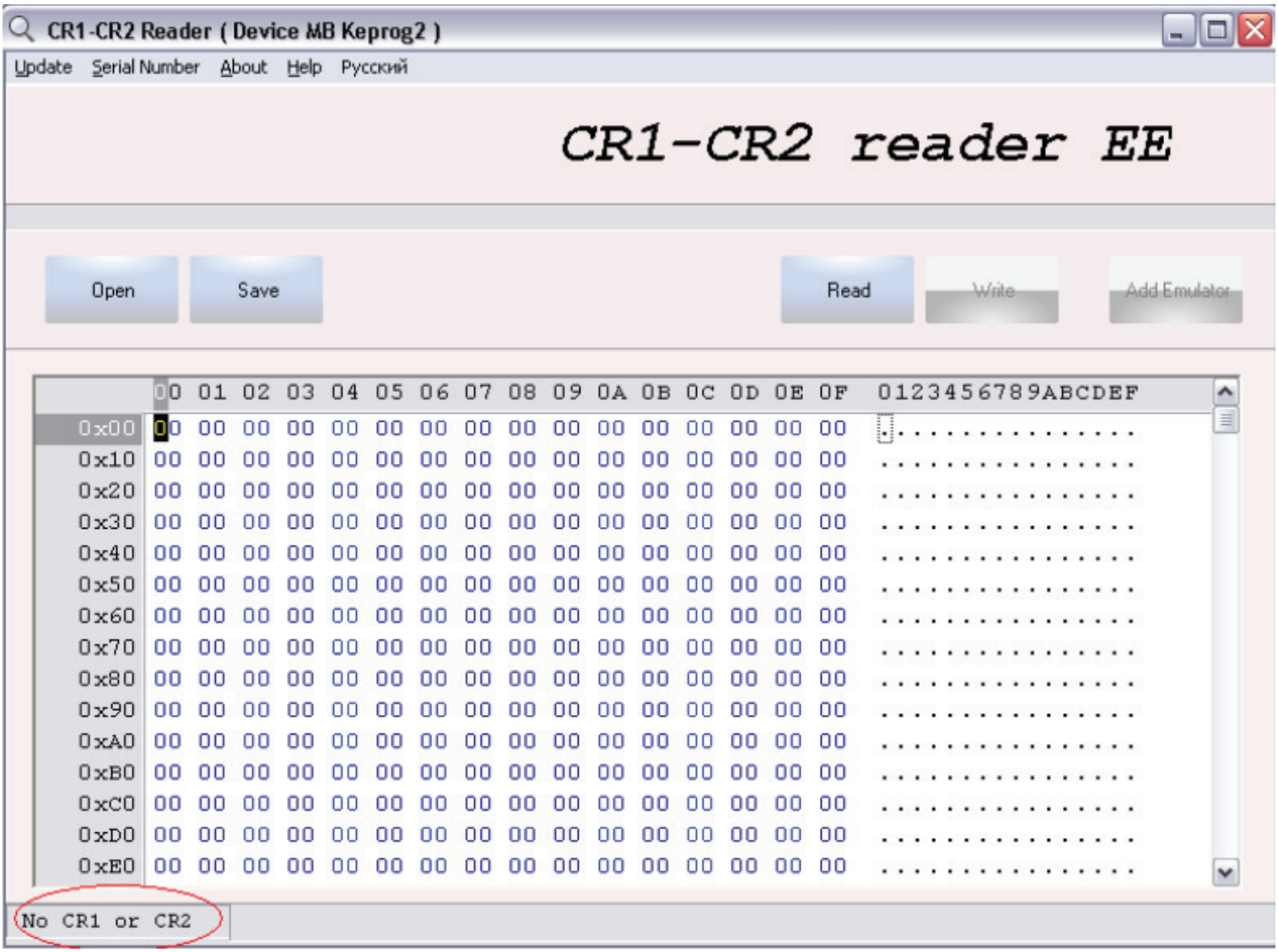
The job process with CR2 ECU is the same like with CR1.
If you see the following message



It means ECU power supply is too low, diagnostic line damaged or some other electrical problem there is in the car.
You can change ECU EEPROM data also manually with removing of ECU and with soldering job.

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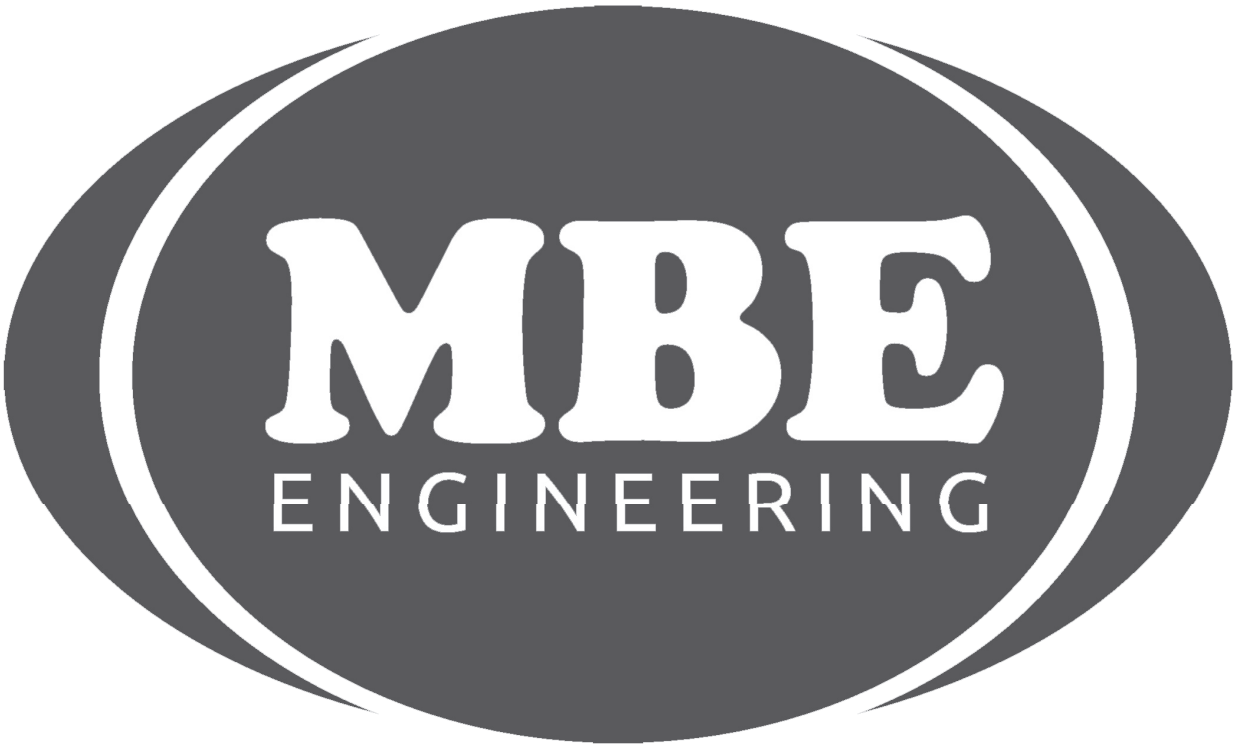

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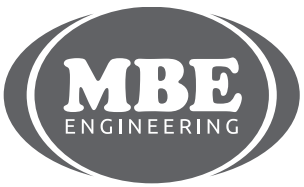
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