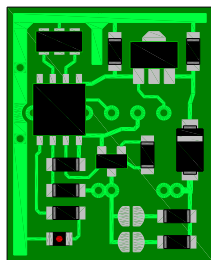
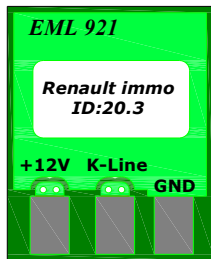


# RENAULT immobilizer emulator EML921/203 installation guide

2015.04.01 edition 01



↑  
LED indicator

## EML921/20.3 technical data:

Supply voltage: 10-15V (DC)

Supported immo system: immo 2 via one wire

## Wiring description:

**[+12V]** - power supply after ignition switch (*Terminal 15*)

**[K-Line]** - Data wire, connected to ECU .

**[GND]** - Ground.

**[!]** Before installation emulator, ECU must be in NEW state (previous immobilizer code must be cleared)

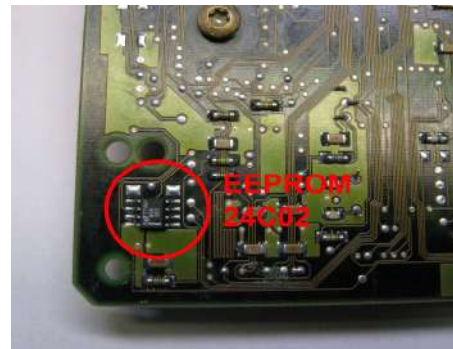
## LED indicator after ignition “on”:

LED still off	No power supply, broken emulator
LED slowly flash	Normal condition
LED go on and still light.	Data line short to ground or not connected to ECU

Examples must popular ECU’s:

## Bosch MSA15.5 (1.9 dti)

EEPROM (24C02) location



Write changes in eeprom as shown in example (red with green border)

**[!]** before making changes, compare original data: data in first green window (adr.: 0x03E – 0x041) must be equal with second green window (adr.: 0x054 – 0x057), see second example

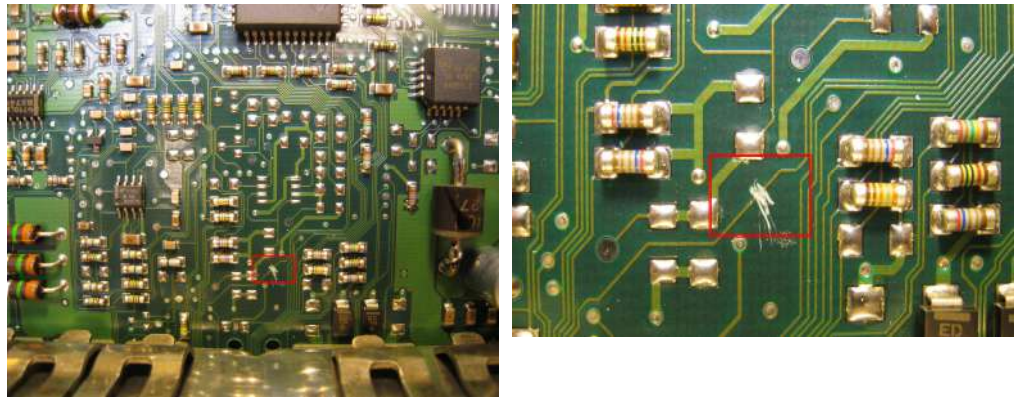
Original data example

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00000000	38	36	39	2E	31	39	AA	AA	38	36	39	2E	31	39	55	55	869.19..869.19UU															
00000010	AA	55	AA	55	AA	55	AA	55	01	C2	0E	9C	00	00	00	00	.U.U.U.U.....															
00000020	00	00	00	00	00	00	00	00	F7	BF	FC	57	00	00	00	00	.....W.....															
00000030	00	1D	05	00	00	00	00	00	00	56	CA	26	00	00	00	00	.....V.&...&															
00000040	FF	FF	00	00	00	01	03	00	01	00	00	00	00	FF	0C	C6	..&.....															
00000050	CC	26	00	00	00	00	FF	FF	00	00	00	01	03	00	01	00	&.....															
00000060	00	00	00	FF	0C	C6	FF	01	11	33	10	0E	00	64	4F	75	.....3...dOu															
00000070	91	B9	12	11	20	95	69	00	00	3E	00	5C	13	22	01	00	...i.>.\."..															
00000080	57	00	41	34	00	00	33	11	01	04	66	00	3D	01	0B	33	W.A4..3...f.=..3															
00000090	22	11	02	11	90	00	09	7C	2D	7F	13	44	02	91	78	00	"..... -.D..x.															
000000A0	F5	00	2C	00	23	11	02	11	78	00	5D	7C	2C	44	00	00	...#...x.] ,D..															
000000B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....															
000000C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....															
000000D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....															
000000E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....															
000000F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....															
00000100	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....															

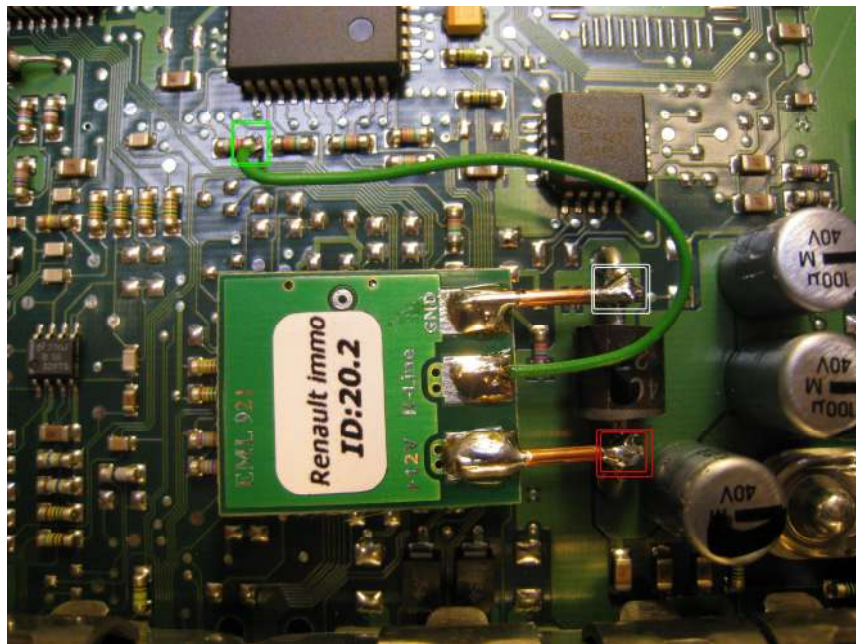
00000020	00	00	00	00	00	00	00	00	F7	BF	FC	57	00	00	00	00	.....W.....	
00000030	00	1D	05	00	00	00	00	00	00	56	CA	26	00	00	26	0B	.....V.&...&	
00000040	D9	F4	00	00	00	01	03	00	01	00	00	00	00	FF	0C	C6	..&.....	
00000050	CC	26	00	00	00	26	0B	D9	F4	00	00	00	01	03	00	01	00	&.....
00000060	00	00	00	FF	0C	C6	FF	01	11	33	10	0E	00	64	4F	75	.....3...dOu	

**Emulator installation inside ECU:**

Cut trace as shown in photo  
->



Emulator GND and Power supply connect to power diode, using 1-1.5 mm<sup>2</sup> copper wire.  
Data line connect with thin flexible wire to resistor as shown in photo ->



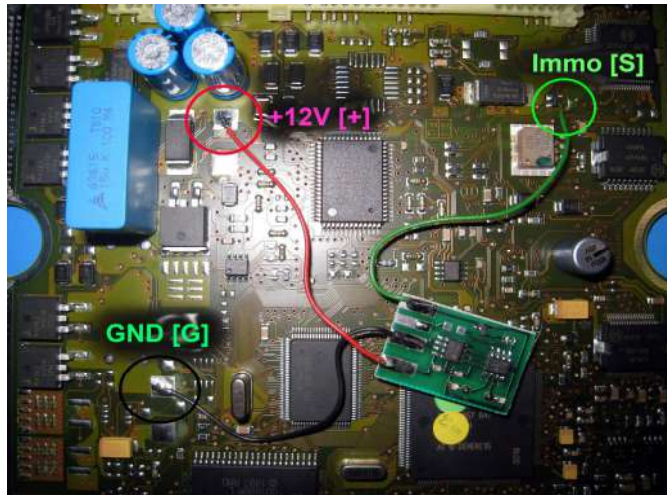
**Bosch EDC 15 (1.9 dci)**

Read eeprom(95080), all black area (from 0x170 to 0x27F) change to 00h and write eeprom.

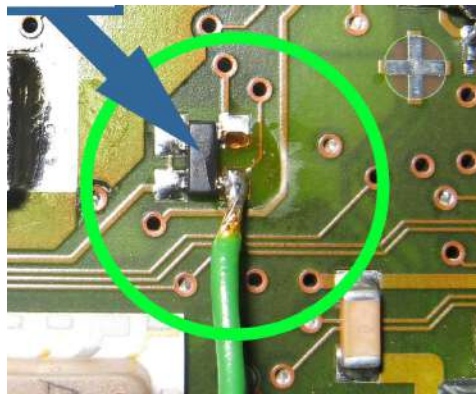
00000120	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000130	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000140	0000	0000	0000	0000	0000	0000	0000	0000	.....
00000150	0000	0000	8000	0000	0000	0000	0000	0000	.....
00000160	0000	0000	0000	0000	0000	00FF	FFFF	FFFF	.....
00000170	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000180	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000190	FFFF	FFFF	FFFF	FFFF	01FF	0000	30FF	0000	.....
000001A0	34FF	0000	08FF	0A00	FFFF	C010	03FF	FFFF	.....
000001B0	00FF	0000	0000	0200	0000	1FE0	00FF	0000	.....
000001C0	0000	0000	0000	0000	0000	0000	0000	0000	.....
000001D0	5555	5555	5555	AAAA	AAAA	AAAA	FFFF	FFFF	.....
000001E0	FFFF	AAAA	AAAA	AAAA	5555	5555	5555	0055	.....
000001F0	AAFF	0055	AAFF	FFFF	00FF	00FF	0000	00FF	.....
00000200	00FF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000210	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000220	FFFF	00FF	00FF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000230	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000240	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000250	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000260	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000270	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000280	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
00000290	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
000002A0	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
000002B0	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
000002C0	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
000002D0	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....
000002E0	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	.....

*Emulator installation inside ECU:*

Connect emulator as shown in photo ->



In some cases this component not present. Connect immo wire to empty place.



Cut immo wire: connector A, pin G2. In photo marked with green ->

