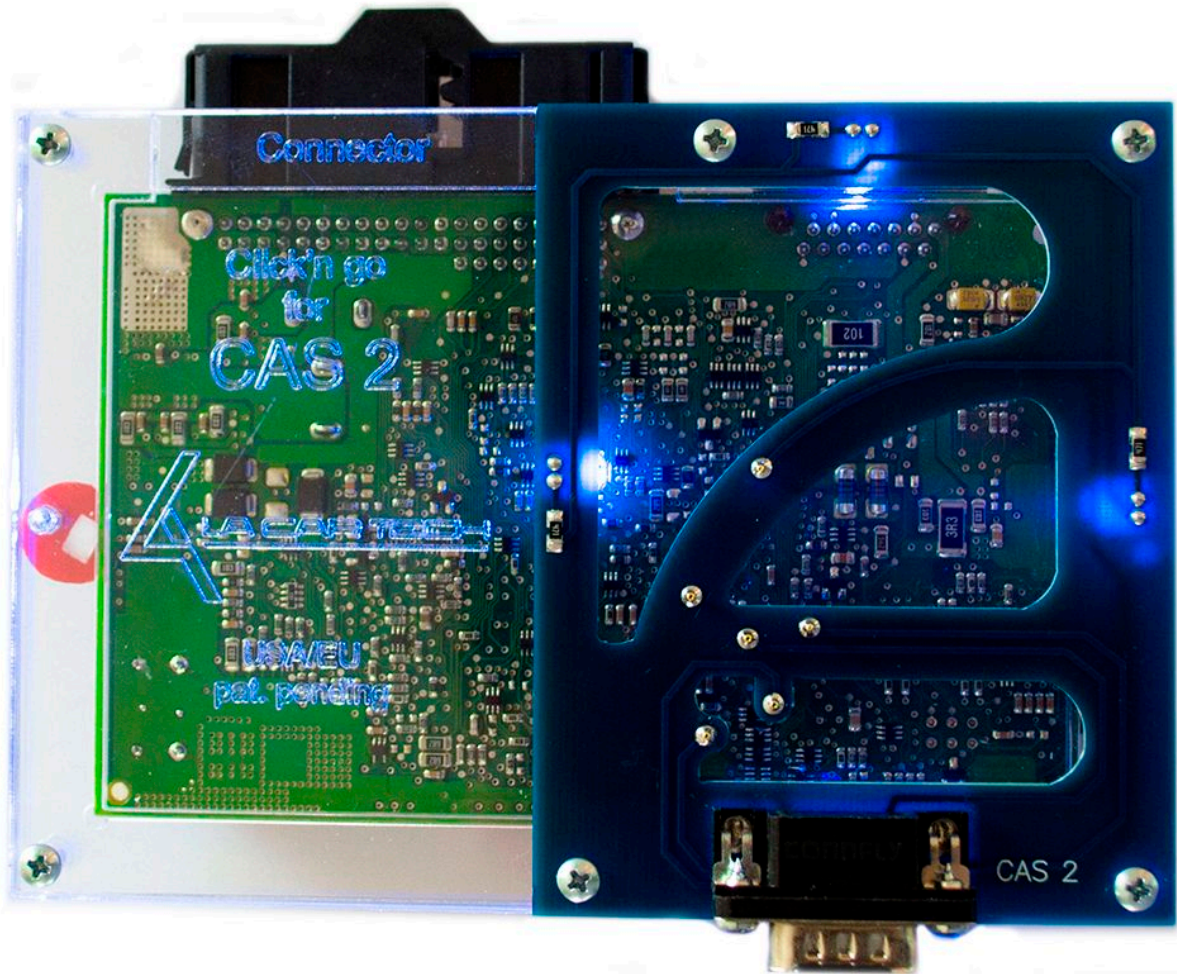


# Click'n Go

## CAS2 gen Click'n Go Adapter

Works with MBProg Programmer. No soldering required.

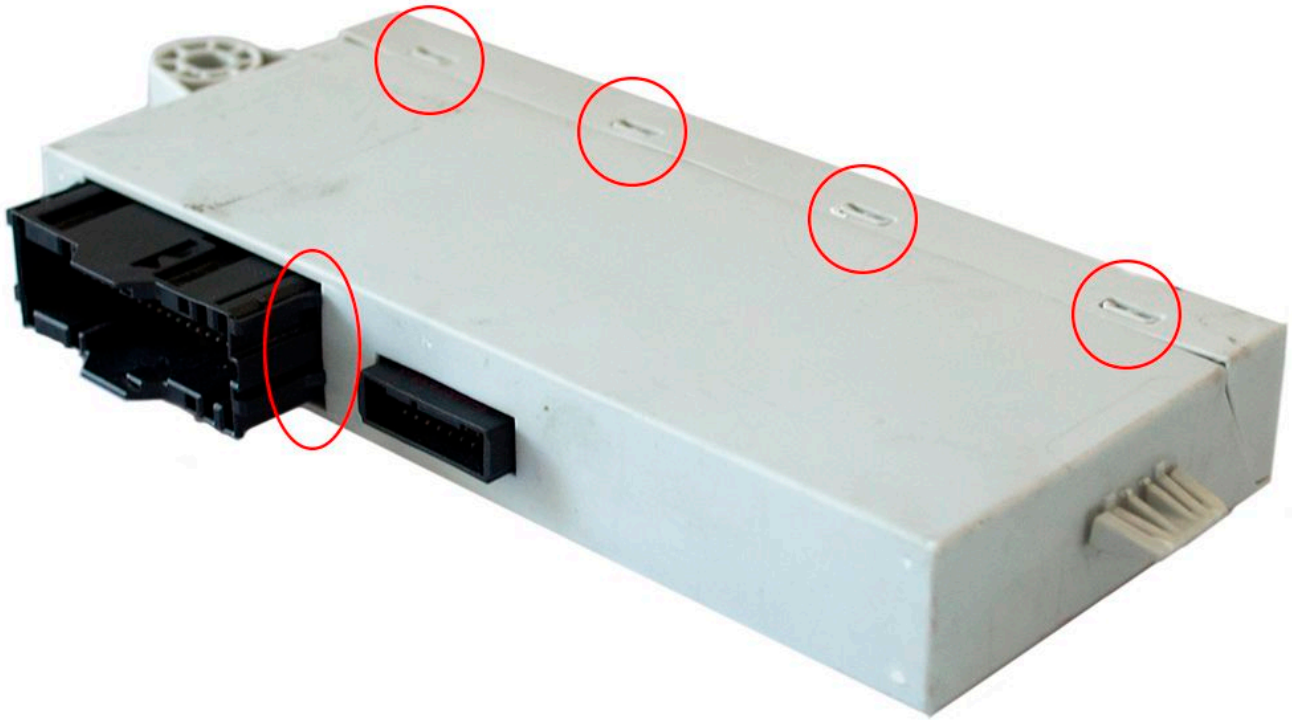
Requires to remove varnish layer from the board and board edges!!!



# CAS2

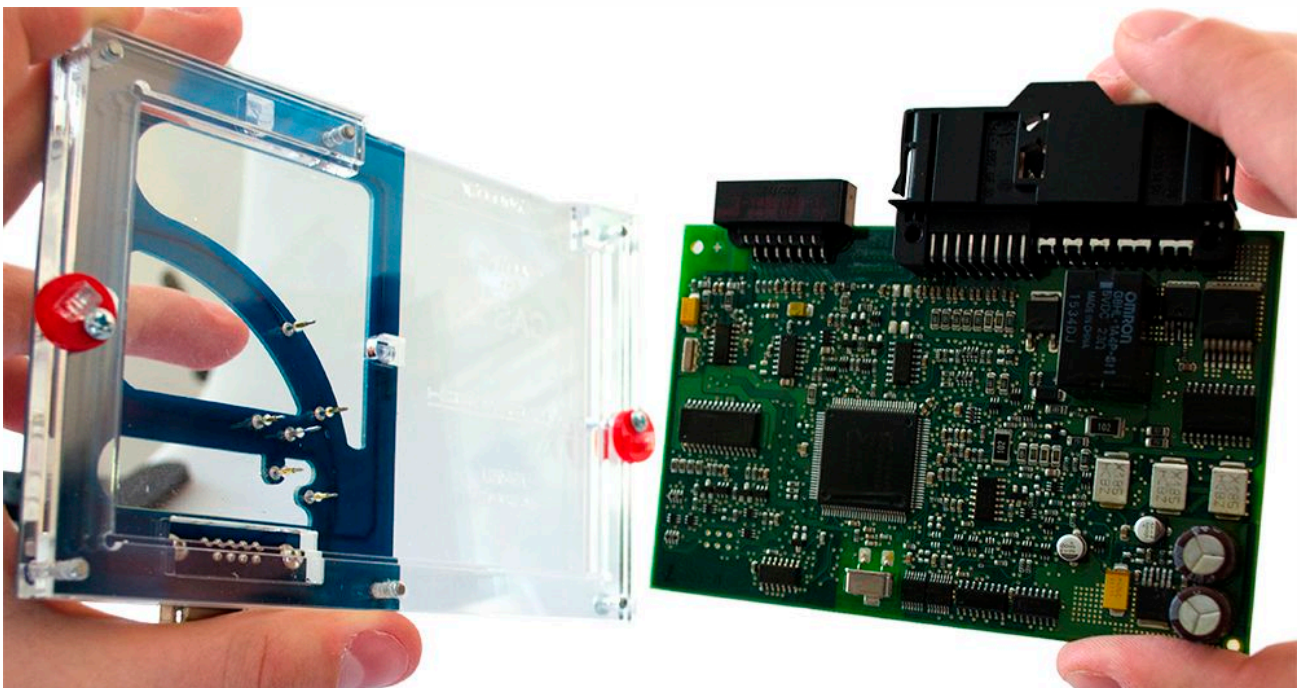
## How to connect

Carefully open by pushing in the CAS2 back body tabs.  
After opening the body, push in the connector tabs and pull out the board.



**Remove varnish layer from the board and board edges!!!  
If you don't do that, Click'n Go will not work correctly.**

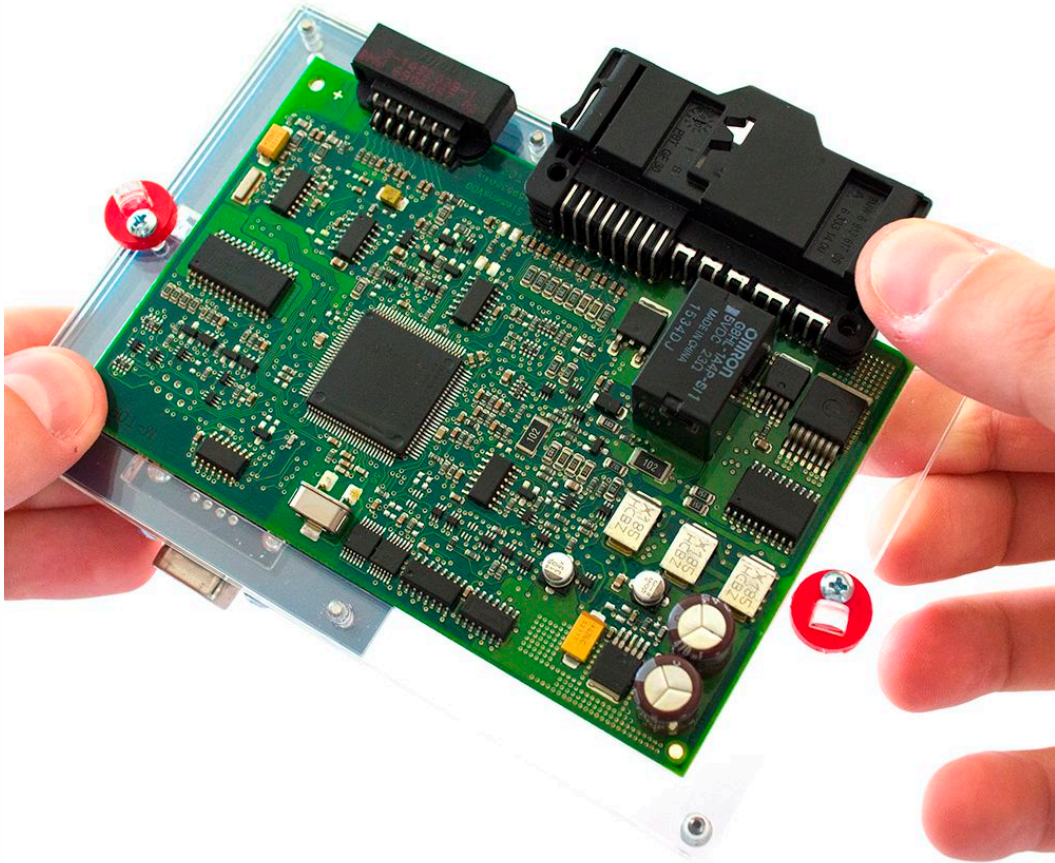
Match the CAS2 board with Click'n Go adapter.



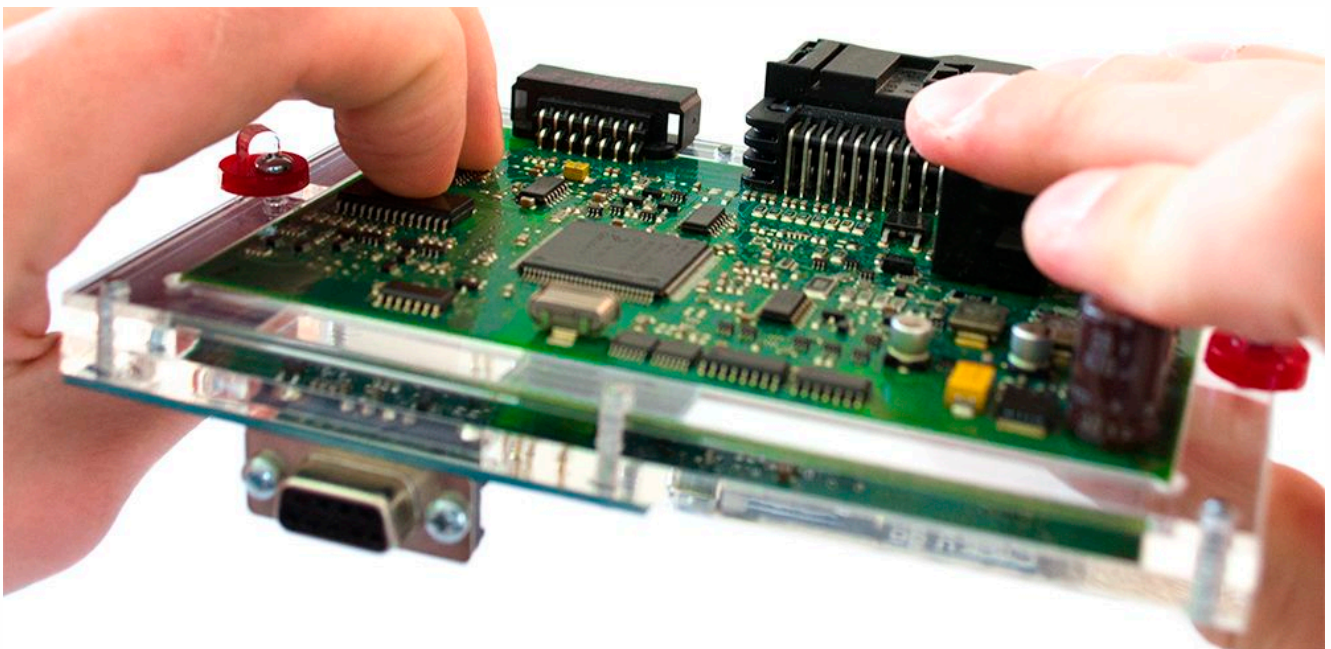


# CAS2

Mount CAS2 board on the Click'n Go adapter.



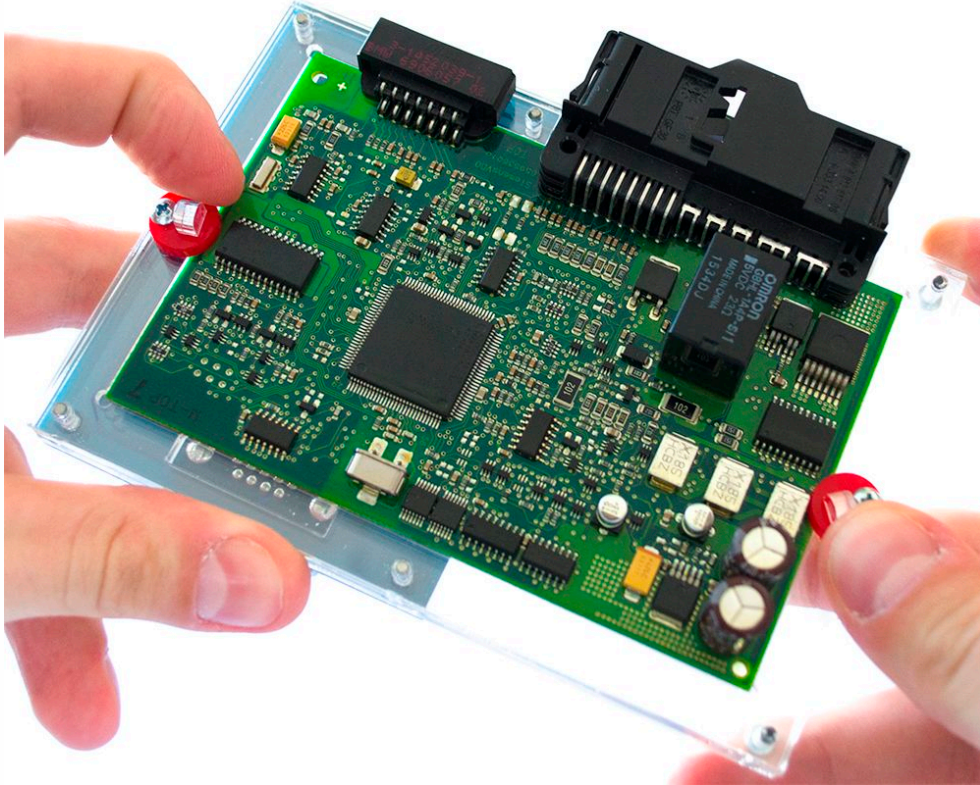
Push down the CAS2 board on to the Click'n Go adapter.  
Make sure it's mounted correctly.





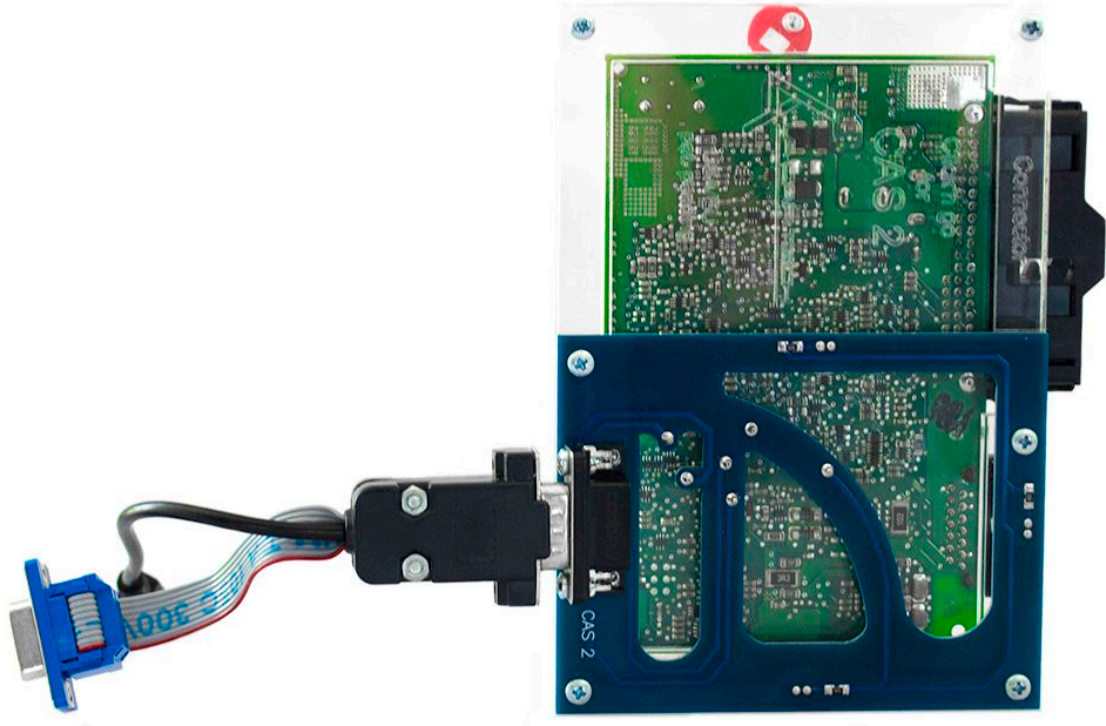
# CAS2

Secure CAS2 by turning the Click'n Go safety locks over the board.

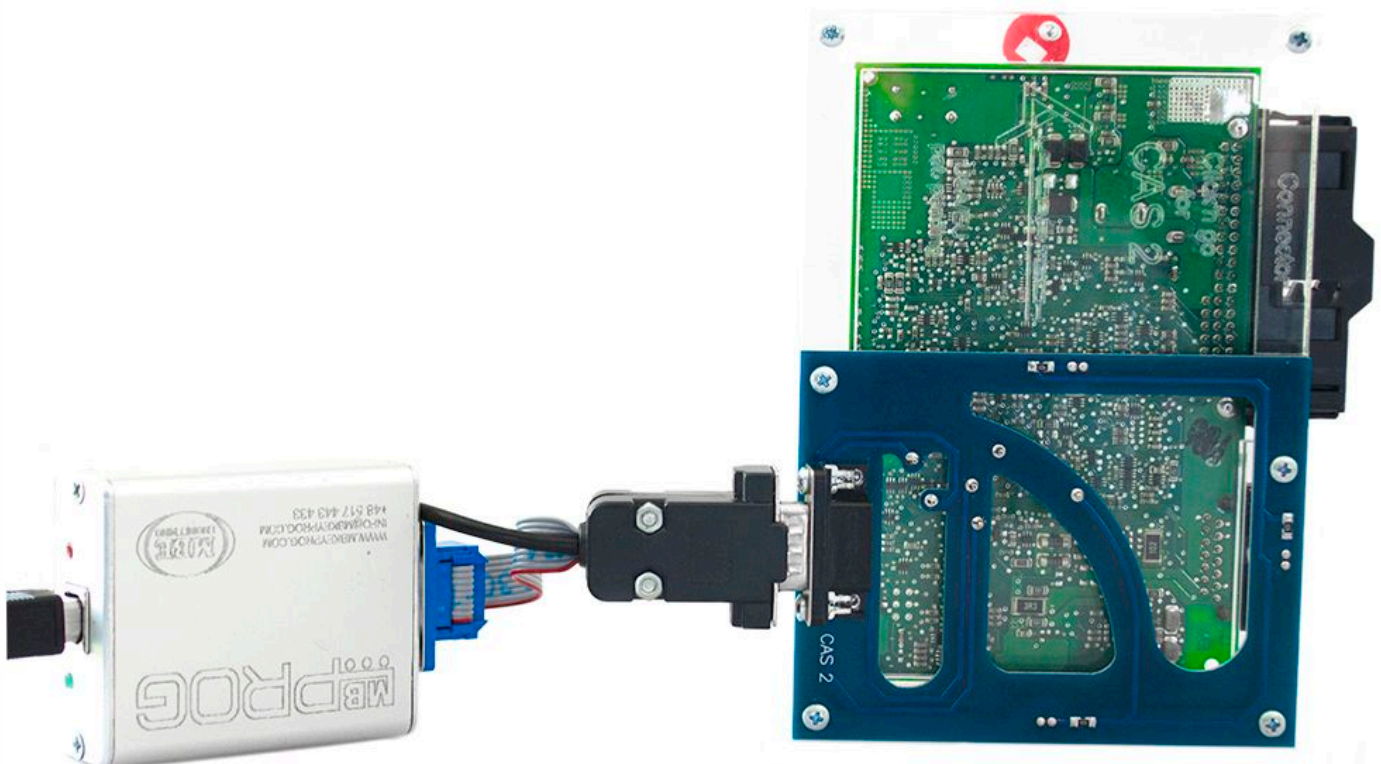


# CAS2

Connect MBProg 2 Click'n Go cable to Click'n Go adapter



Connect MBProg 2 Click'n Go cable to MBProg  
Connect MBProg USB cable to PC and MBProg





# CAS2



## How to read

Open MBProg software.

Check bottom right corner if your device is correctly connected.

Now click Chip button.

Selected Device: None

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	01	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0x00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0x10	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0x20	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0x30	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0x40	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0x50	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0x60	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0x70	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0x80	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0x90	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xA0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xC0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xD0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xE0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xF0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

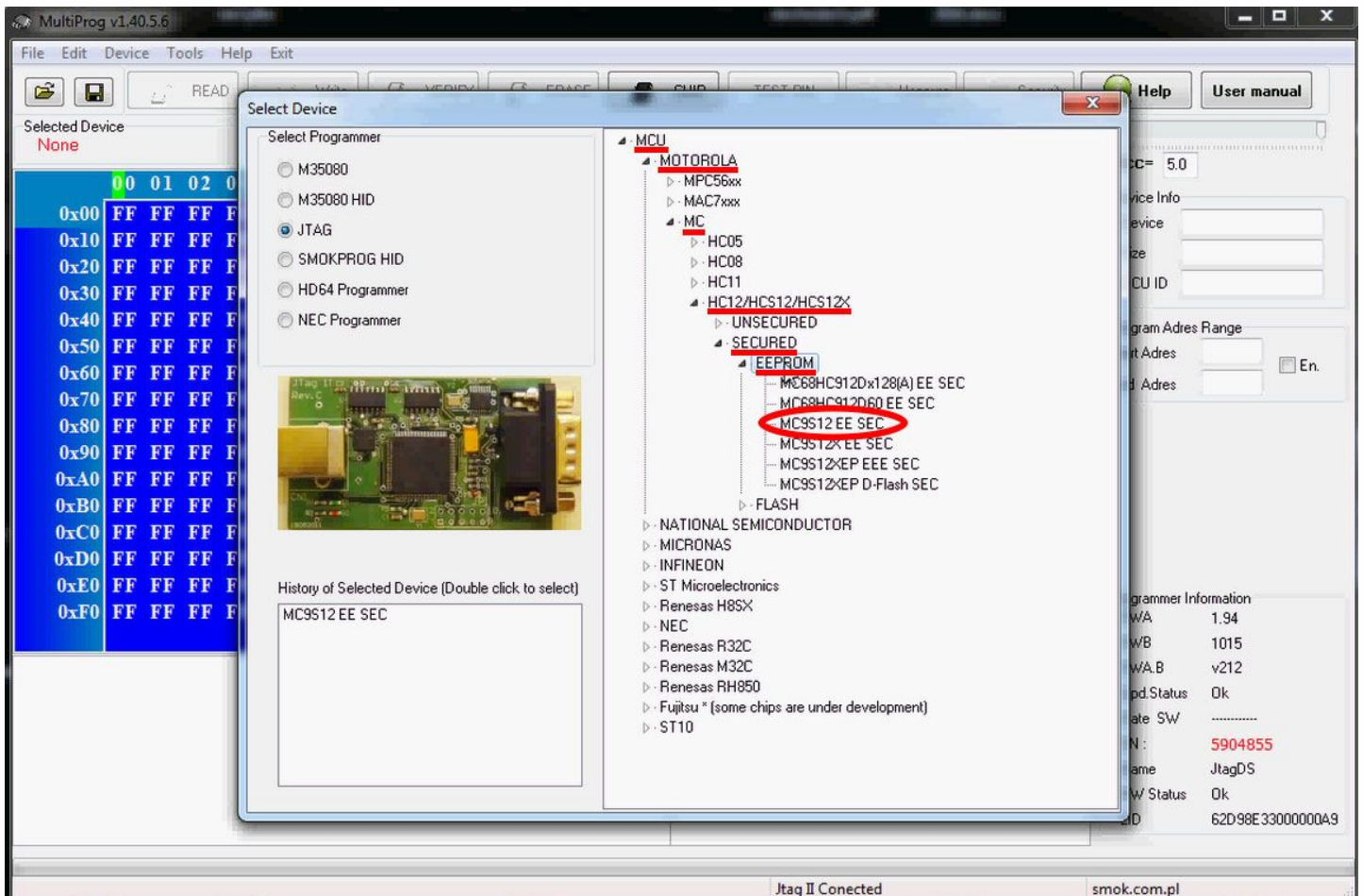
Programmer Information

SWA	1.94
SWB	1015
SWA.B	v212
Upd Status	Ok
Date SW	.....
SN :	5904855
Name	JtagDS
HW Status	Ok
LID	62D98E3300000A9

Jtag II Connected smok.com.pl

# CAS2

Make sure that JTAG is selected in programmer software.  
Select MOTOROLA > MC > HC12/HCS12/HCS12X > SECURED > EEPROM  
Double click on MC9S12 EE SEC option as seen in the red circle.







# CAS2

CAS2 reading process is done.

MultiProg v1.40.6.1

File Edit Device Tools Help Exit

READ Write VERIFY ERASE CHIP TEST PIN Unsecure Security Help User manual

Selected Device: MC9S12XEE SEC

Vcc= 5.0

Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
0xBD0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xBE0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xBF0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xC00	FF	FF	FF	FF	11	11	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xC10	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0xC20	17	74	02	41	38	1E	1E	32	0F	0E	08	1E	44	00	3B	00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xC30	00	00	00	36	90	05	05	14	02	09	2A	28	15	32	03	00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xC40	20	00	75	FF	00	55	55	FF	08	02	32	7F	00	00	23	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xC50	05	23	33	19	0F	05	1E	14	00	0A	00	00	00	C5	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xC60	30	41	71	FF	FF	FF	FF	FF	FF	FF	FF	FF	F8	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xC70	FF	FF	FF	FD	30	36	31	31	32	30	30	39	93	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xC80	62	6F	D1	FF	57	4D	57	4D	46	37	43	35	37	41	54	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xC90	34	32	34	39	30	64	FF	FF	00	0A	FF	FF	00	0A	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xCA0	00	0A	FF	FF	00	00	0A	0A	FF	FF	FF	00	0E	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xCB0	FF	FF	00	10	10	FF	FF	FF	00	04	FF	FF	FF	FF	00	06	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xCC0	FF	FF	FF	FF	00	08	FF	FF	FF	FF	00	0A	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
0xCD0	00	0C	FF	FF	FF	FF	FF	C8	C8	FF	FF	FF	FF	FF	FF	FF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	

Read EE MC9S12XEE SEC  
Read ID MCU ok  
MCU ID :C410  
Memory Config :0000  
Unsecuring...  
t=160, t1=99, t2=71  
Unsecure Ok  
Reading EE MC9S12Xxx Secured...  
Read OK  
Saved backup File : C:\Users\Mateusz\Documents\Temp\Temp1.bin

Read OK Jtag II Connected smok.com.pl