

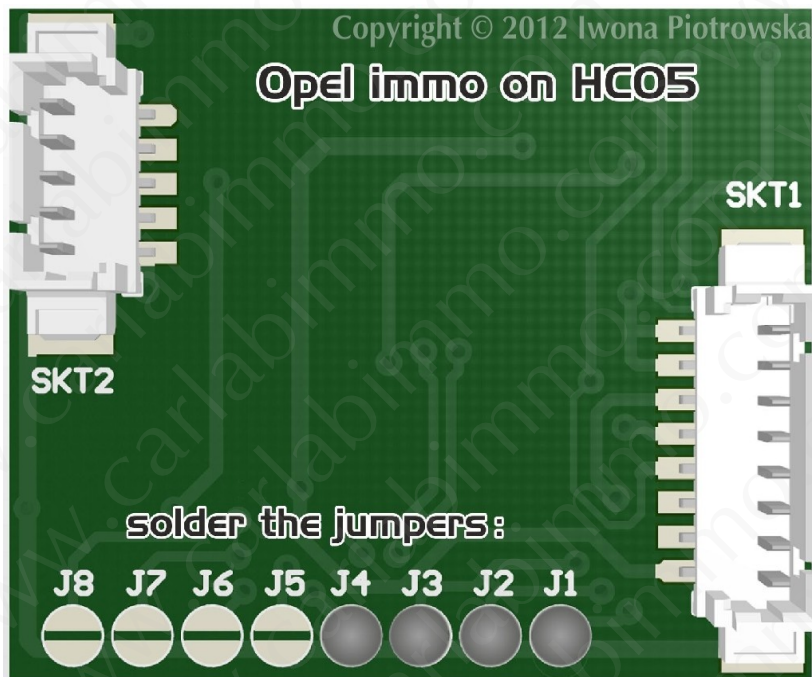


EMULATOR IMMO OPEL



Created by Carlabimmo

Jumper settings on board of Universal Car Emulator Julie



Solder jumper J1, J2, J3 and J4 on the emulator

ECM 1.2, 1.4 gasoline with two black plugs and processor Motorola HC11E20

ECM 2.0, 2.2 and 2.5 gasoline with memory eeprom 24C02

Thank you for purchasing our device.

Emulator immo to Opel cars replaces damaged immobilizer or the car key. It function after made changes in memory content of Engine Control Module ECM. In case of losing the car keys or a car burglary, it enable to drive off from the road to the car service.

Due to a low cost you can leave it in the car instead of buying a new immo or making car keys duplicate. There is a possibility of using it as the additional security!

Two LEDs indicating:

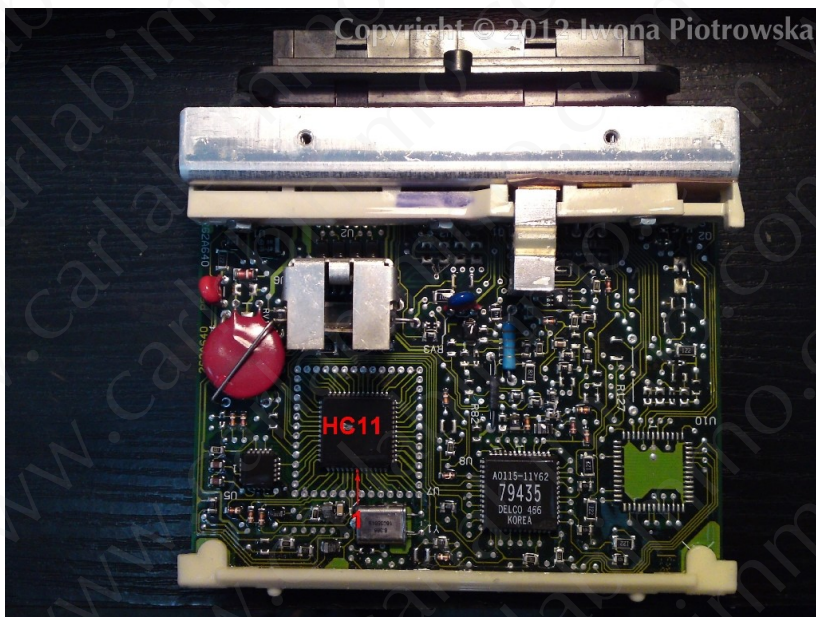
green – power

red - after adjusting it lights constantly and blinks each 2 seconds

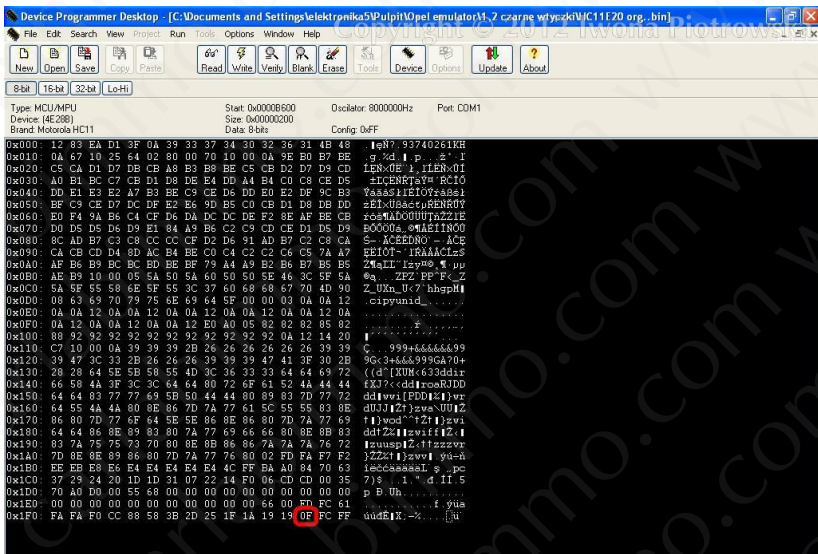
In selected models of ECU you can programmatically disable immo without necessity to use the emulator.



ECMs 1.2, 1.4 gasoline with two black plugs and processor Motorola HC11E20.

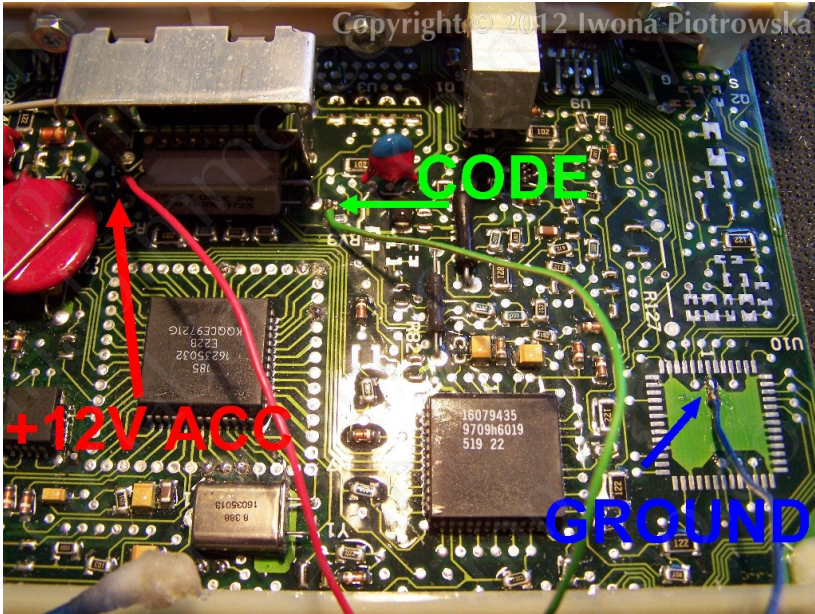


In ECM find processor Motorola HC11E20



Type in 1FD value 0F

To use emulator type in eeprom of processor Motorola in address 1FD value 0F.



Connecting emulator in ECM:

blue - ground
 red — power ACC
 green — immo

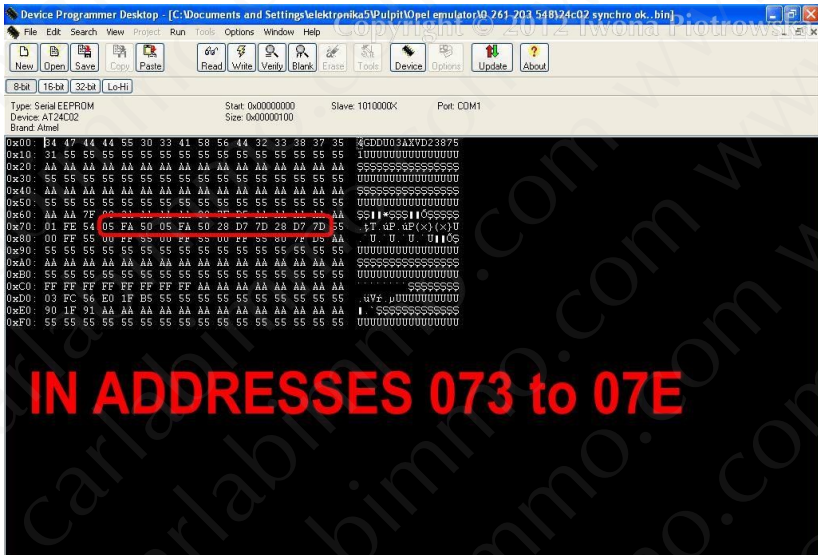
Additionally connect in plug immo pin 6 with 7
 (involve troubles about speed signal).

Before connecting the ECM, emulator must be precisely isolated by the isolation strap.

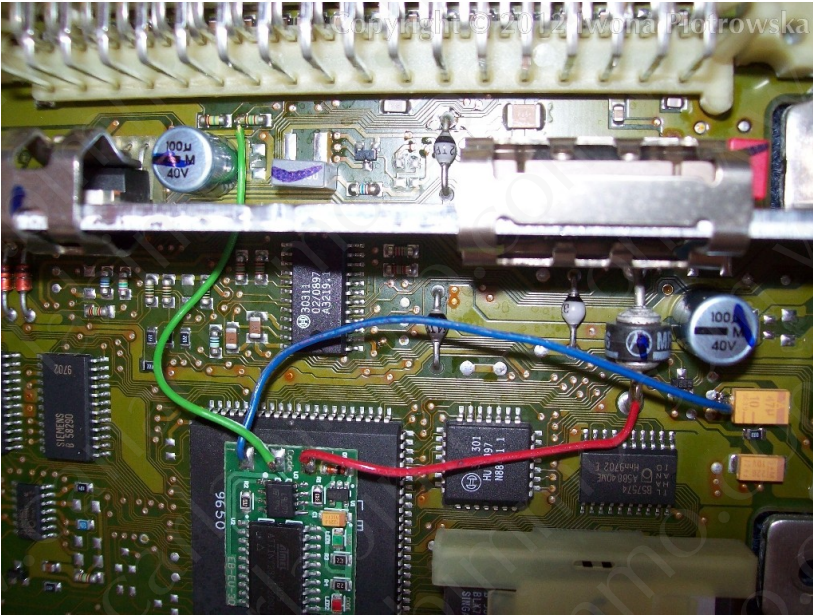
ECMs 2.0, 2.2 and 2.5 gasoline with memory eeprom 24C02



In ECM find eeprom 24C02.



To use emulator type in eeprom 24C02 from address 073 to address 07E value:
05 FA 50 05 FA 50 28 D7 7D 28 D7 7D

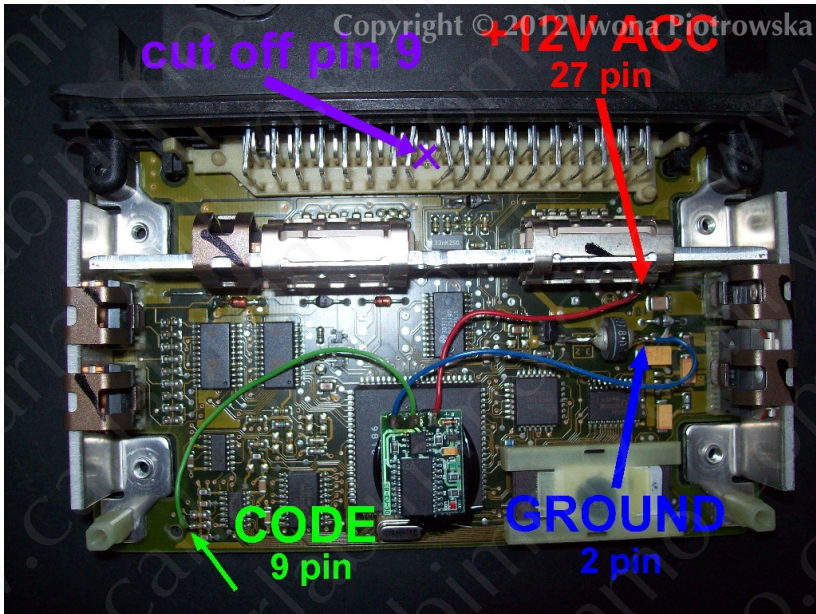


**Connecting emulator in ECM
(2.0 and 2.2 gasoline):**

- Pin 2 - ground**
- Pin 37 – power ACC**
- Pin 9 – immo**

**Additionally disconnect immo and connect in plug immo pin 6 with 7
(involve troubles about speed signal).**

Before connecting the ECM, emulator must be precisely isolated by the isolation strap.



Connecting emulator in ECM (2.5 gasoline)

- Pin 2 - ground
- Pin 27 – power ACC
- Pin 9 – immo

Additionally disconnect immo and connect in plug immo pin 6 with 7
(involve troubles about speed signal).

Before connecting the ECM, emulator must be precisely isolated by the isolation strap.

Warning!!!

Due to possible construction changes of the cars, before connecting the device check signals by multimeter on the immobilizer plug or in ECM.

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www.carlabimmo.com

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