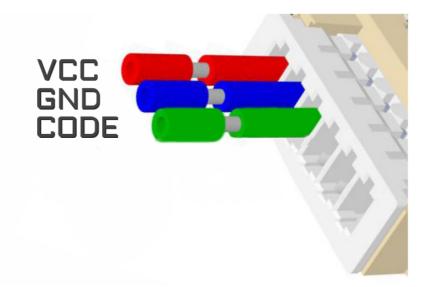


Program	Use
Opel	<ul> <li>ECUs with immobiliser on HC05 processor</li> <li>1.2 and 1.4 gasoline 2-socket (black) ECU with Motorola HC11E20 processor</li> <li>2.0 2.2 and 2.5 gasoline with 24C02 eeprom memory</li> </ul>

# Wiring colour codes



#### The LED behavior

diagnostic mode - it flashes every second adjusting to the ECU – flashing 0,1 sec after adjusting it lights constantly and blinks every other second



# Opel

USE

ECUs with immobiliser on HC05 processor 1.2 and 1.4 gasoline 2-socket (black) ECU with Motorola HC11E20 processor 2.0 2.2 and 2.5 gasoline with 24C02 eeprom memory

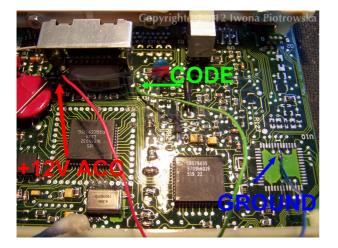
1.2 and 1.4 gasoline 2-socket (black) ECU with Motorola HC11E20 processor



Find Motorola HC11E20 processor



In address **1FD** write **0F** value

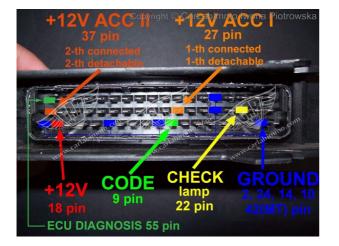


**Connecting emulator to ECU** 

+12V ACC	red
GND	blue
Immo	green

Disconnect immo and connect pin 6 with 7 in the wiring of immo plug to eliminate troubles with speed signal

# 2.0 2.2 and 2.5 gasoline with 24C02 eeprom memory

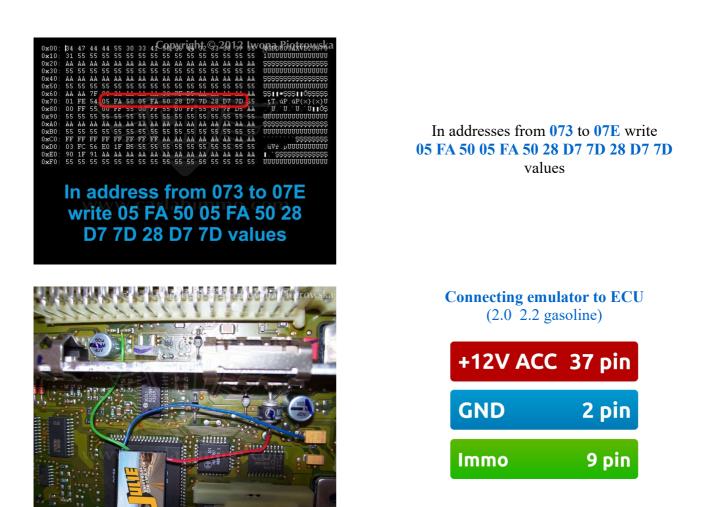




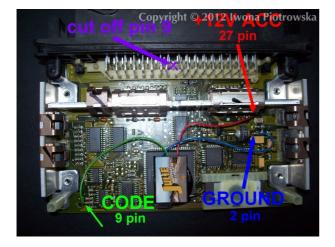
Find **24C02** eeprom memory

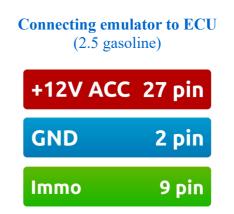
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See all emulators



Disconnect immo and connect pin 6 with 7 in the wiring of immo plug to eliminate troubles with speed signal





Disconnect immo and connect pin 6 with 7 in the wiring of immo plug to eliminate troubles with speed signal



### Warning!!!

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



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