

FENIX K. Skowroński spółka jawna fenix@sterowniki.co www.sterowniki.co www.autoemulator.com

Diagnostic device Immobilizer Emulator

i6- Immobilizer Emulator Fiat group with CAN



Update 27.04.2022







i6- Immobilizer Emulator Fiat group with CAN

1. Product description:

This device emulate an immobilizer data stream to the ecu. It is meant to be used as diagnostic device during car repairs in car workshops.

In order to properly work of emulator, there is need to modify eprom and flash memory for some kinds of controllers.

2. Supported controllers

Described in the manual:

- ☐ Magneti Marelli IAW 5NF, IAW 5SF3, IAW 5SF8, IAW 9GF, MJD 6F3 type 1, 2, MJD 8F2
- ☐ Bosch EDC15C7, ME 17.3.0
- ☐ Visteon DCU102

Others, additionally supported by the Fenix IBP application:

☐ Bosch: EDC16C8, EDC16C34, EDC16C39, EDC17C49, EDC17C69, EDC17CP52, ME 7.3.1,

ME 7.3.4, MED 7.6.1, ME 7.9.10

Magneti Marelli: IAW 5SF4, IAW 7GF, MJD 8F2, MJD 9DF, 8GMC, 8GMF, 8GSW,

3. Wire marks in emulator

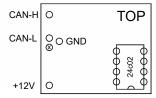
| Red | Red | +12V ACC |
|-------|-------|----------|
| Blue | Blue | GND |
| Black | Black | CAN-H |
| White | White | CAN-L |

4. LED diodes colours in emulator

| Green | Emulator power supply |
|-------|---------------------------------|
| Red | Emulator has been fitted to ECU |

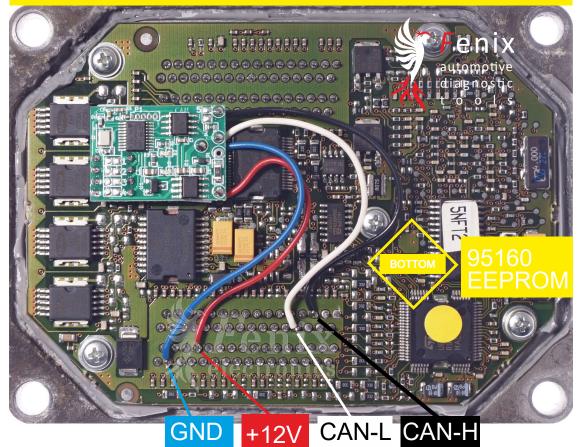
5. Connecting emulator to the controller:

- · Read ECU controller memory, save batch to file
- · Generate new batch file based on batch read from ECU use Fenix IBP application
- · Load new batch file generated by application to 24c02 eeprom memory in emulator
- · Solder memory with new batch loaded to emulator



- · Assembly emulator in ECU controller
- · Disconnect the immo loop from the ignition switch.

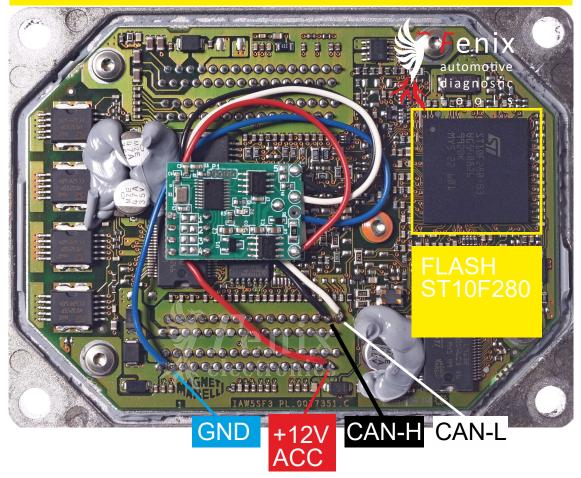
Fiat - Alfa Romeo - Lancia, immo IAW 5NF





+12V •29 ■ 2 GND •15 ■ 2 CAN-H • 51 ■ 2 CAN-L •36 ■ 2

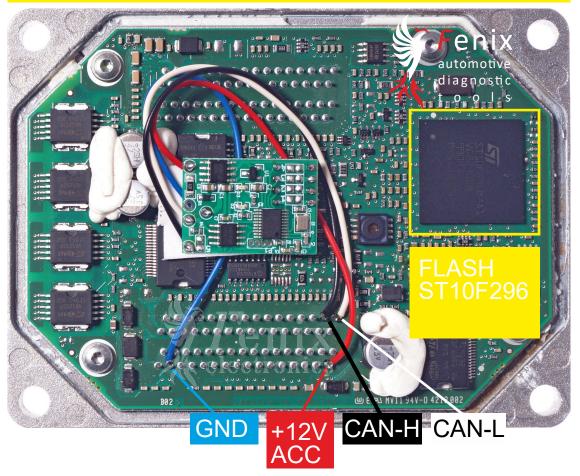
Fiat - Alfa Romeo - Lancia, immo IAW 5SF3







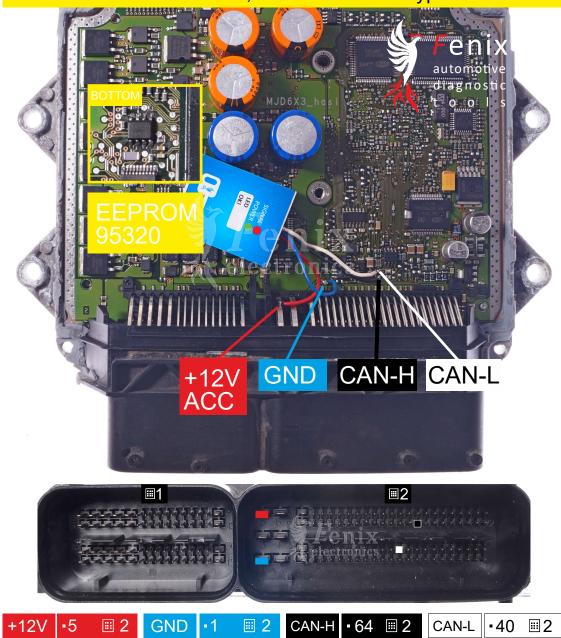
Fiat - Alfa Romeo - Lancia, immo IAW 5SF8





+12V -1 ■ 1 GND -15 ■ 1 CAN-H - 50 ■ 1 CAN-L -49 ■ 1

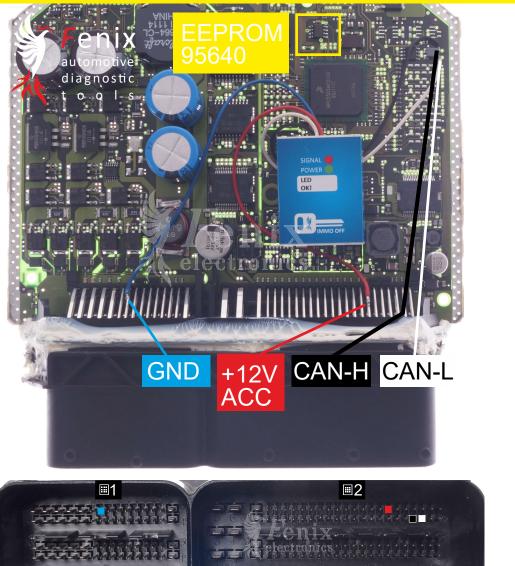
Fiat - Alfa Romeo - Lancia, immo MJD 6F3: type 1



Fiat - Alfa Romeo - Lancia, immo MJD 6F3 : type 2



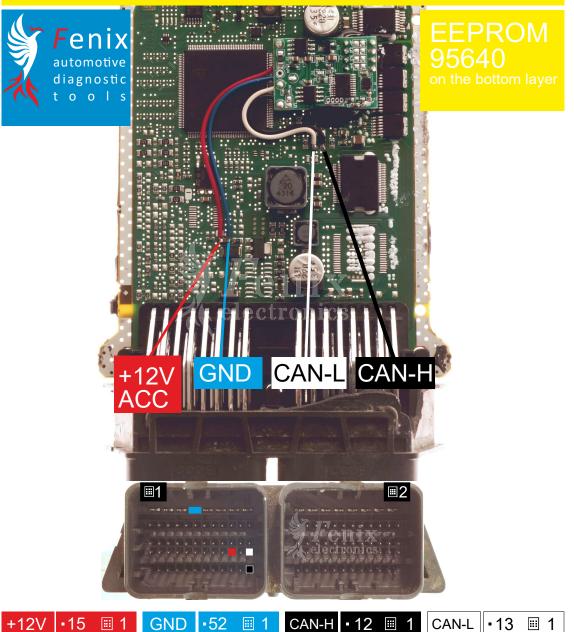
Fiat - Alfa Romeo - Lancia, immo MJD 8F2



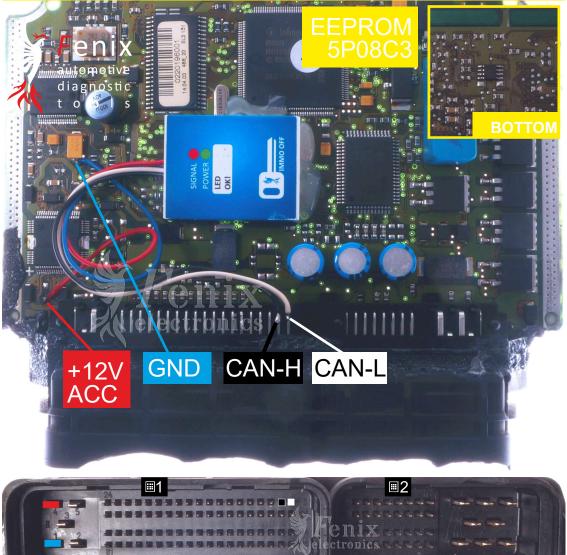


GND -52 **■ 1** CAN-H - 69 ⊞ 2 CAN-L | -70

Fiat - Alfa Romeo - Lancia, immo IAW 9GF



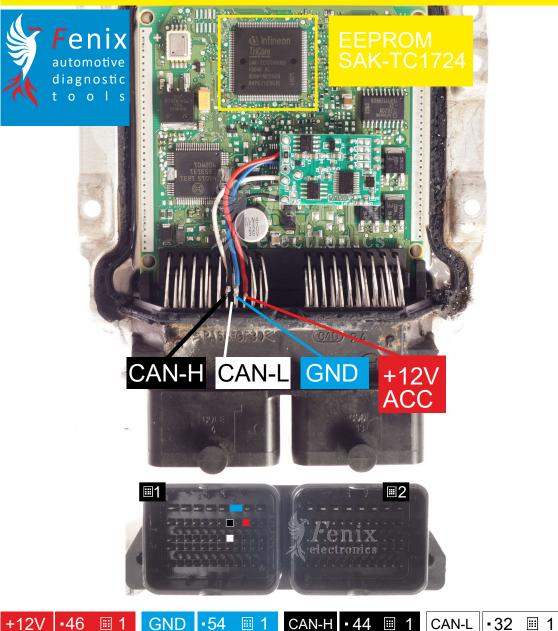
Fiat - Alfa Romeo - Lancia, immo Bosch EDC15C7





+12V -4 GND -1 CAN-H • 7 **■ 1** CAN-L **⊞** 1

Fiat - Alfa Romeo - Lancia, immo Bosch ME 17.3.0



Fiat - Alfa Romeo - Lancia, immo Visteon DCU102

