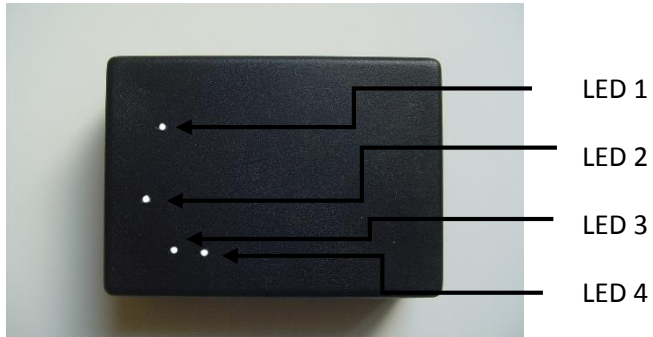


Consistent installation method "cable with connectors" NOX + save or NOX + pump testing mode:

Needed device equipment:

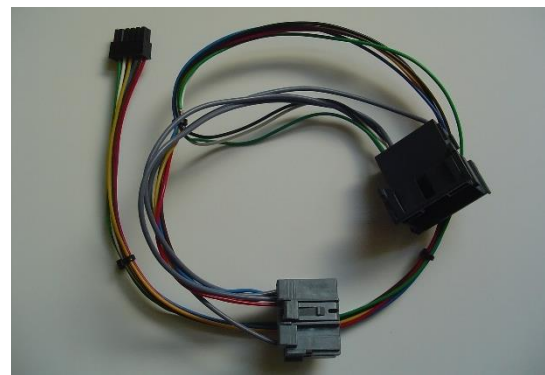
1. Device main module:



2. Add-on PCB:



3. Cable with connectors:



4. Resistance (required for pump testing only)

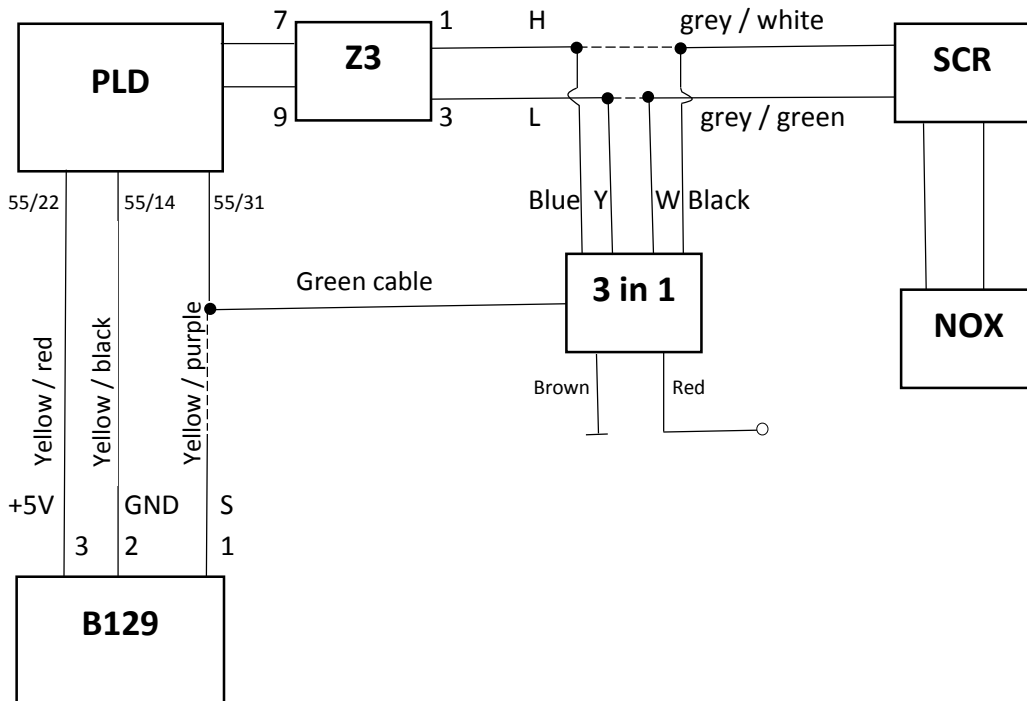


5. Contact, bolts for channel's block



ATTENTION!!! Before installing the device in Full mode, it is necessary to activate Cotel (FMS) interface using the diagnostic tool, otherwise possible device malfunctions. The device receives FMS data or not can be judged by LED2 indicators you see, read User's Manual Table 7

The device circuit scheme illustrating the sequential connection in Full mode:



AdBlue pressure sensor

B129 – AdBlue pressure sensor

PLD – an engine control unit

Z3 – CAN bifurcation point (STAR point)

3 in 1 – Gudraks 3 in 1 device

SCR – SCR control unit

NOX – NOX sensor

Table 1

| Gudraks 3 in 1 | Where to connect |
|----------------|-------------------------|
| Brown | 31 kl., frame |
| Red | 30 kl., constant "plus" |
| Yellow | CAN1_L, PLD side |
| Blue | CAN1_H, PLD side |

| | |
|-------|--|
| White | CAN2_L, SCR side |
| Black | CAN2_H, SCR side |
| Green | Adblue pressure sensor out (in the above scheme is not in use) |

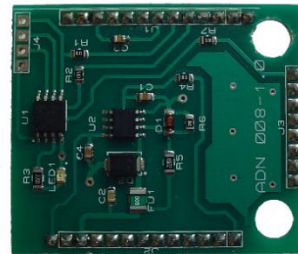
All installation work carried out with the ignition switched off.

Installation procedure for a **NOX + save and NOX + pump** testing functions.

- 1 Step. Open the main PCB housing and install an add-on PCB

The main PCB with an open housing

Add-on PCB should be mounted on the main PCB



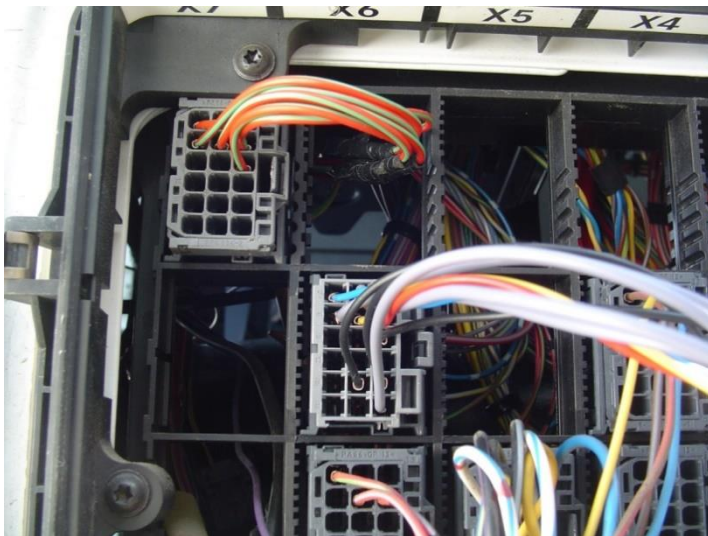
- 2 Step. Open the engine cover.



- 3 Step. Open cab-chassis connection box (cable distribution panel).



4 step. Disconnect the connector, which is in sixth column from the machine left side (marked X6) and in the second line from the top:

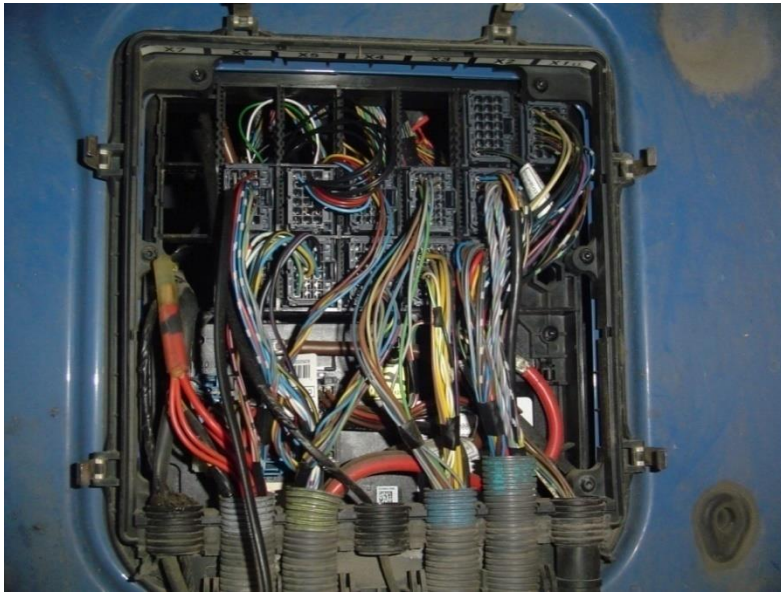


On the connector should be marked X 6.2 (sixth column of the second row):

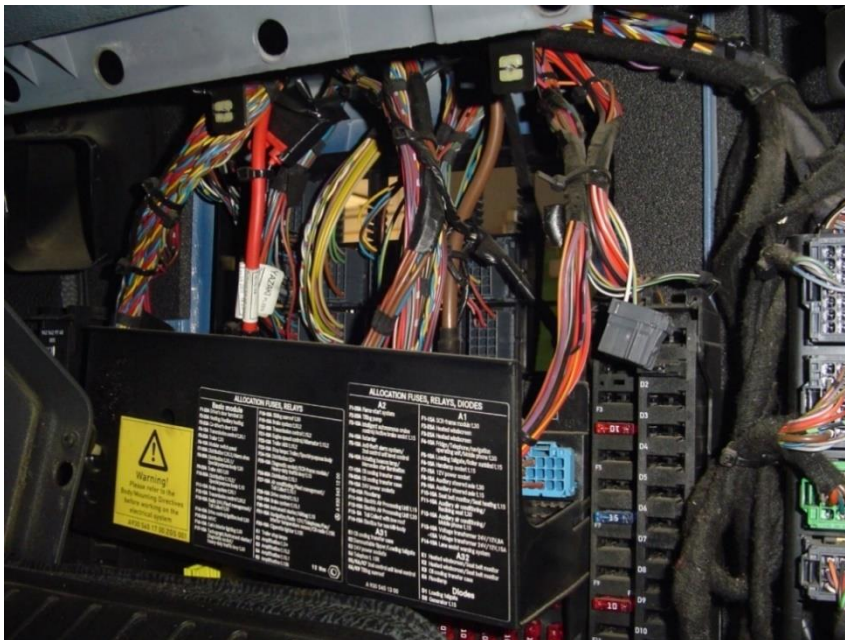


5 step. The gap are connected with cable connectors: one connector with connector socket, which left in the cab-chassis junction box from the top of the second row and the sixth column and the second connector put in free place in cab-chassis connections box. Connector should place like that the cables

from the connector go into the cab, and connected side would be from the front. Then connect with the disconnected connector X6.2. In the photo placed below the device is mounted to the inner cab-chassis junction box side:



6 step. The device main module is installed in the cab inner side



Installing the appliance NOx sensor test + save mode finished, if necessary pump testing mode read below, otherwise check the device performance and installation work is complete:

LED1 – must flash in blue with 1000 ms interval;

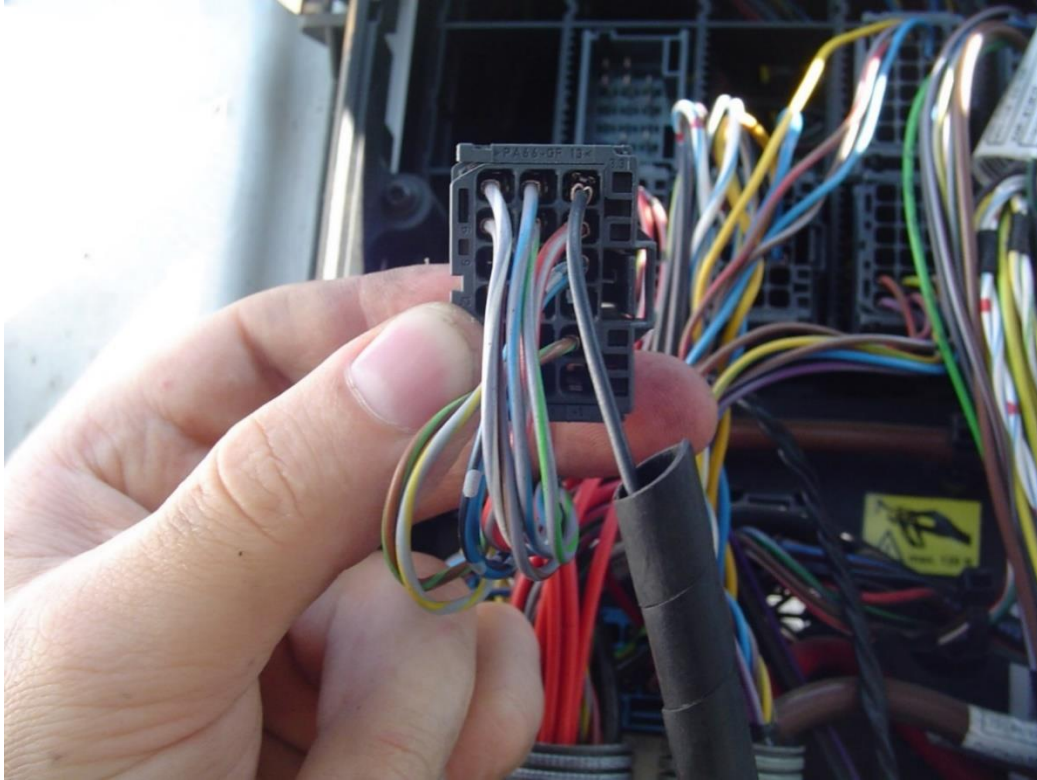
LED2 – must flash in blue;

LED3, LED4 – must flash in green.

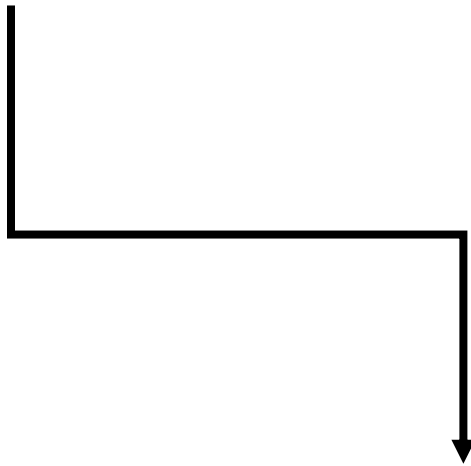
It is advisable to check the SCR system functions using a diagnostic device.

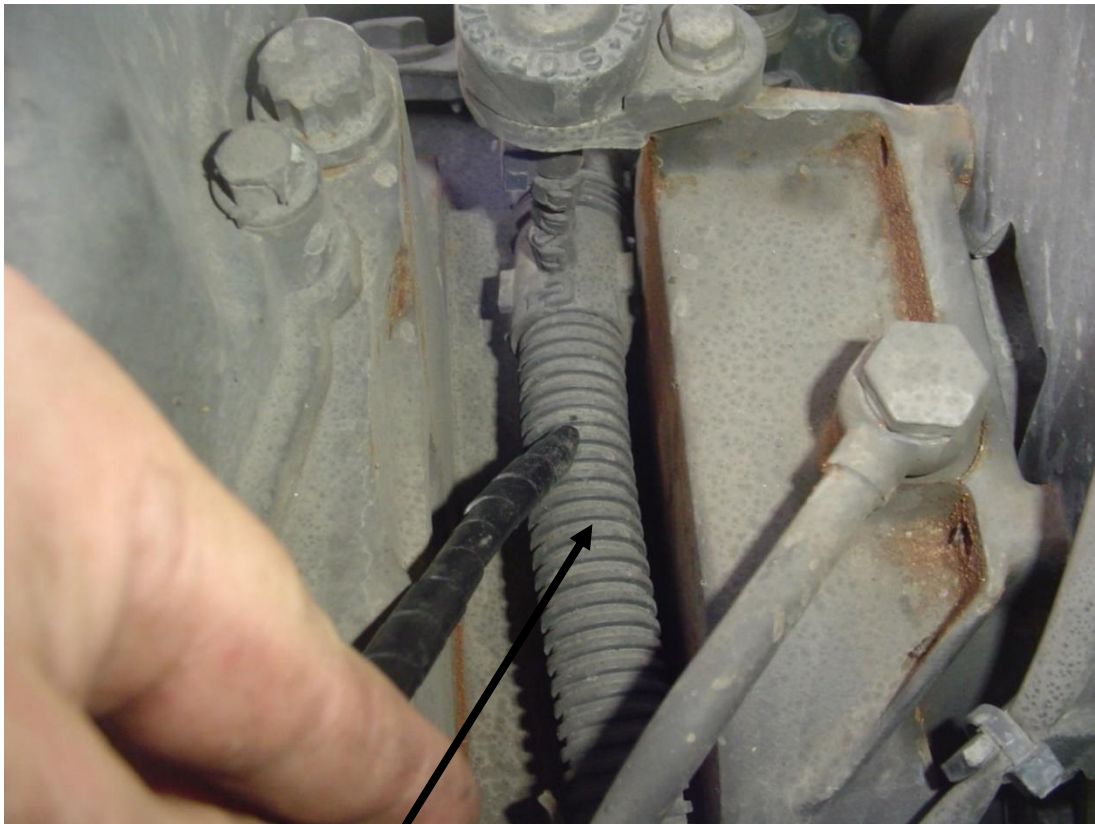
If you notice other LED flashing / lighting options, read the main instruction.

7 step. Lying the cable from a pressure sensor signal cable end that leads to the engine control unit (PLD) and the put in to the 1 contact location in 6.2 connector. It should be one wire cable about 3 meters in length.



Pressure sensor cable can be founded under the cab on the engine near the start / stop switch:





8 step. In this cable of wires we find a yellow wire with a purple ribbon, cut it and connect the cable which coming from the engine control unit (PLD) side. An advice. You can lead two wires and other wire connect to a pressure sensor side. Then, when you need to unplug, it will be enough just a short-

circuit the two ends of the wires which is next to the Gudraks 3in1 device (there is no need to raise the cab or go under the machine)

Pressure sensor wire can be connected next to the engine control unit (PLD): yellow with purple cable, 31 contact in major connector:



Adblue pressure sensor:



9 step. Block Adblue pump channels so that will stop Adblue liquid:

Block this channel (supply to the pump):



For a channel block is used this type screws:



10 step. After that block the exit channel of the pump:



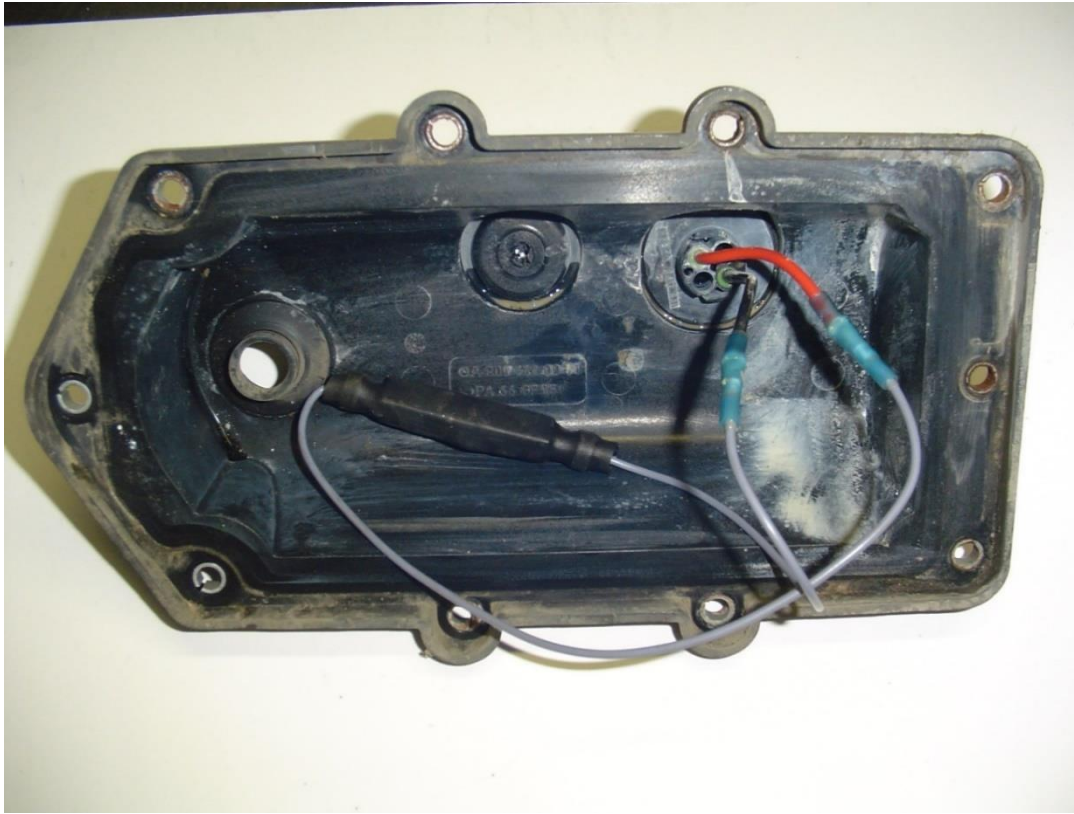
In the photo below are nozzles in which are built-in bolts, which blocks the channels:



11 step. Remove the pump cover and disconnect the pump by trimming wires:



12 step. Mount the pump load (resistance):



13 step. Insert the resistance of the pump inside the cap, so that it will protect against mechanical damage:



Tie resistance with straps.

14 step. Put a cap and connect hoses.

15 step. After installing, check the device work:
LED1 – must flash in blue with 1000 ms interval;

LED2 – must flash in blue;

LED3, LED4 – must flash in green.

It is advisable to check the SCR system functions using a diagnostic device.

If you notice other LED flashing / lighting options, read the main instruction.