Powering and Connecting

Rev 1.0

Date: 18/12/2015



Working with DiagProg4 POWERING and CONNECTING

This document contains a set of advice and procedures to be used while working with DiagProg4.

(The same set of rules also applies to working with DiagProg3)

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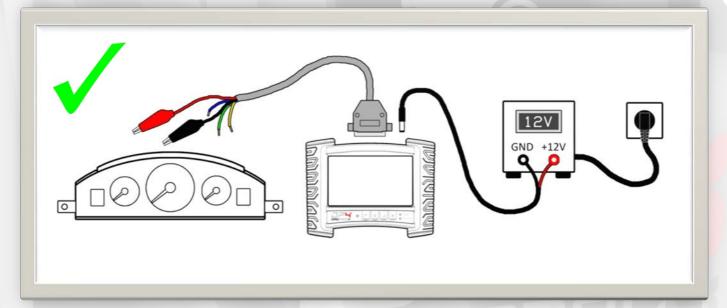
CORRECT
Powering of DP4

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Working with DiagProg4 on the table: CORRECT POWERING of DP4



The picture above shows the correct method of powering DiagProg4 together with the programmed module/odometer while working on the workshop table.

- DiagProg4 should be powered by a stabilized 12V DC power supply capable of supplying at least 3A of output current *
- The programmed module/odometer is powered through the cable connecting it with DiagProg4.

The module/odometer shall not be powered by any additional external power supply!

- Additional power supply should be connected only if such information is found in the description!
 - * Detailed information about power supply parameters can be found in DiagProg4 User Manual.

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INCORRECT
Powering of DP4

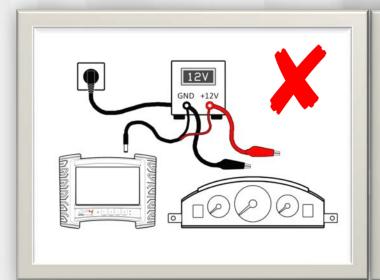
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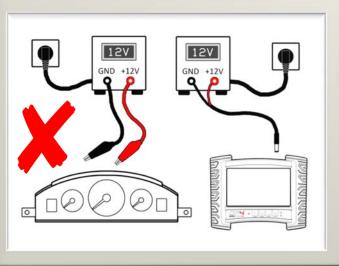
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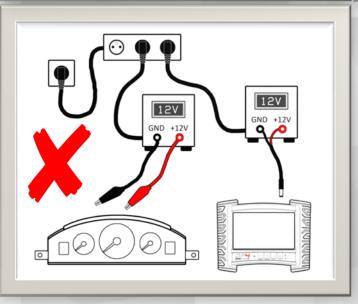


Working with DiagProg4 on the table:

INCORRECT POWERING of DP4







The pictures show **INCORRECT** methods of powering DiagProg4 while programming modules/odometers on the workshop table.

The use of these methods creates a threat of breaking down DiagProg4 and the programmed module/odometer!

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Connecting soldered cables

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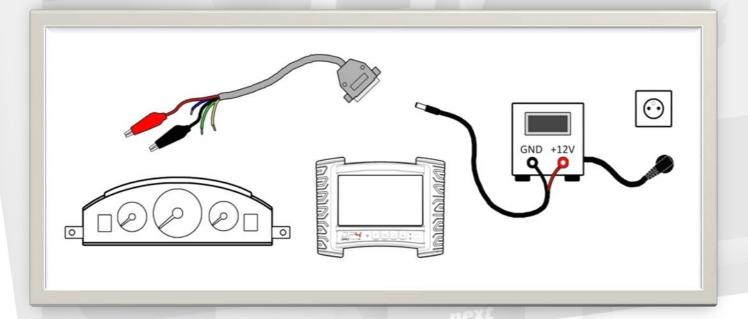
Working with DiagProg4 on the table: CONNECTING ODOMETERS - SOLDERED CABLES

This document explains the procedure of connecting DiagProg4 with a module/odometer by using a cable that requires soldering of wires. By not following the proper order of actions, we create a threat of breaking down DiagProg4 and the module/odometer we are trying to connect.

STEP 1

Prepare: the power supply, DiagProg4, module/odometer and the proper cable.

Make sure that all the cables and the power supply are disconnected, as in the picture below.



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Connecting soldered cables

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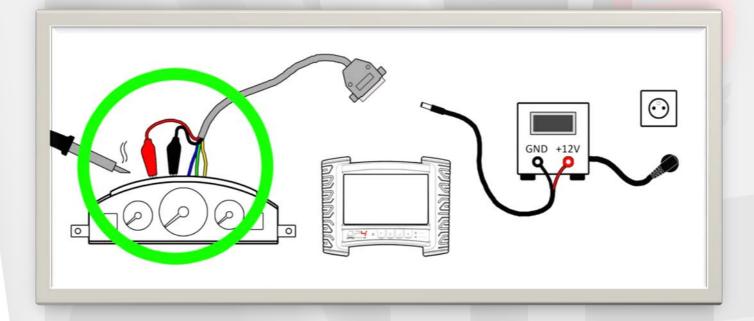
STEP 2

Connect the proper cable to the module/odometer - solder the wires which require soldering and attach other connectors if they are present in the cable.

Make sure that there are no short circuits between the soldered wires!

Make sure that there are no short circuits between the soldered wires and the ground and power supply wires! Pay extra attention to the power supply wire!

Make sure that the ground and power supply wires are firmly attached so that they won't disconnect on their own during the programming!



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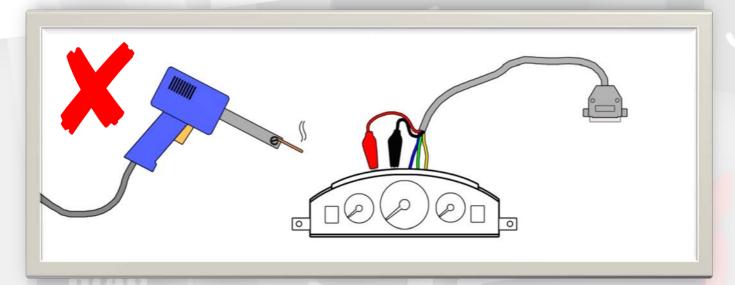
Connecting soldered cables

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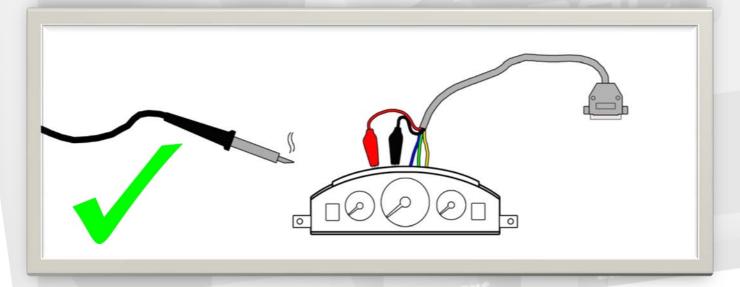
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Avoid using transformer-type soldering iron!



Use heater-type soldering iron!



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Connecting soldered cables

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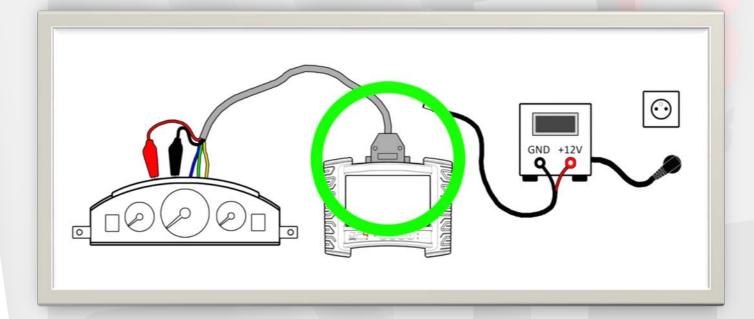


STEP 3

Connect the cable to the DiagProg4 system connector.

After connecting the cable, make sure that none of the wires disconnected or loosened from the module/odometer!

After connecting the cable, make sure that there was no short circuit created on the module/odometer!



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Connecting soldered cables

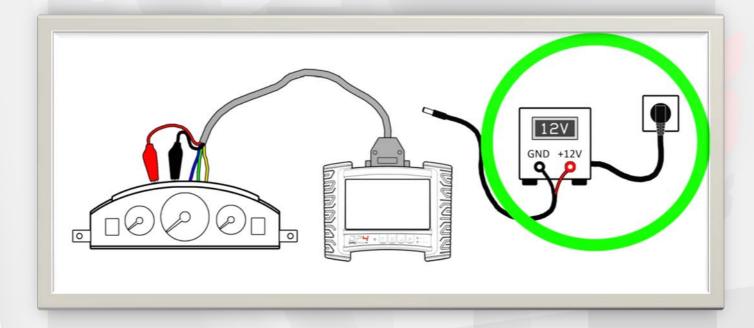
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STEP 4

Turn-on the power supply.



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Connecting soldered cables

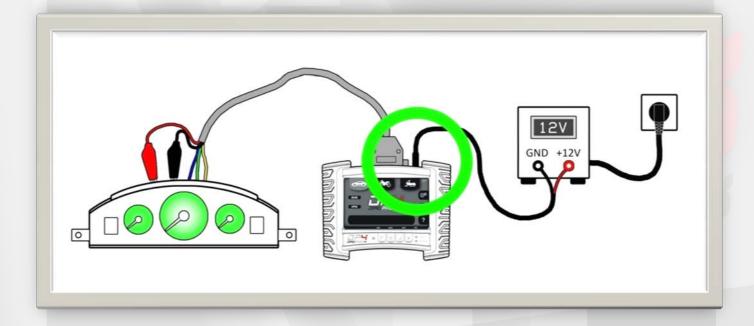
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STEP 5

Connect the power supply to the DiagProg4.



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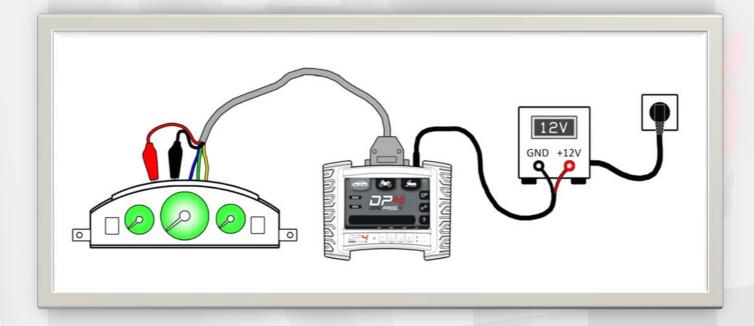
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STEP 6

DiagProg4 is ready to work.

Perform the tasks you need.



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Connecting soldered cables

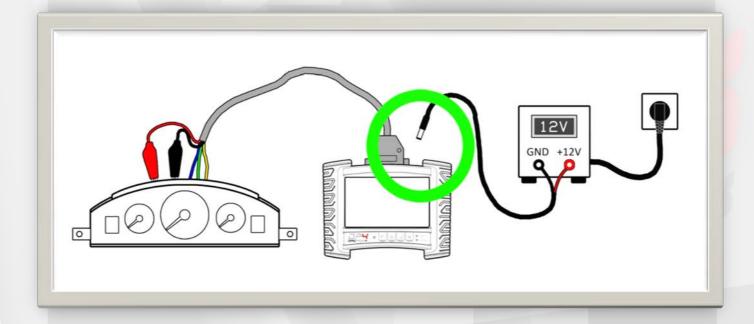
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STEP 7

After you finish your programming, firstly, disconnect power from DiagProg4.



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Connecting soldered cables

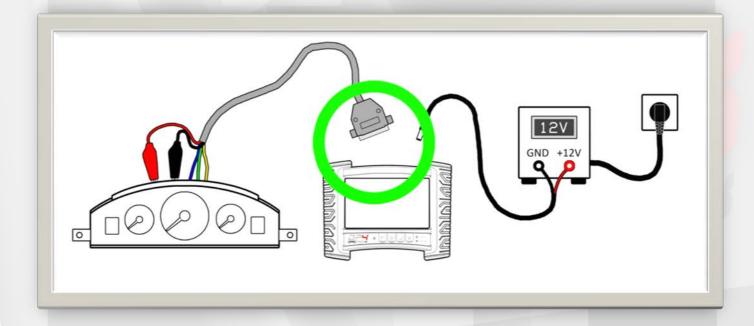
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STEP 8

Next, disconnect the cable from DiagProg4 system connector.



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Connecting soldered cables

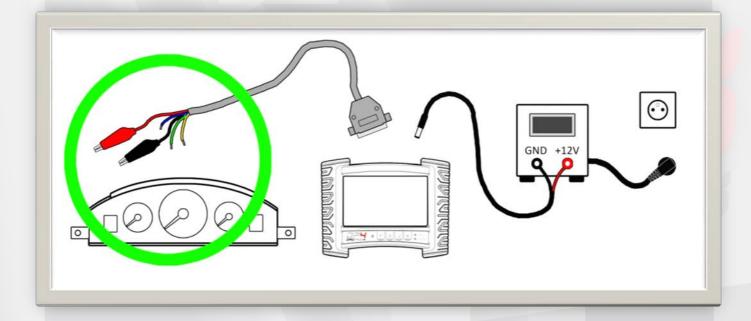
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STEP 9

Now, you can safely unsolder the wires from the module/odometer and finish your work.



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Correcting connections

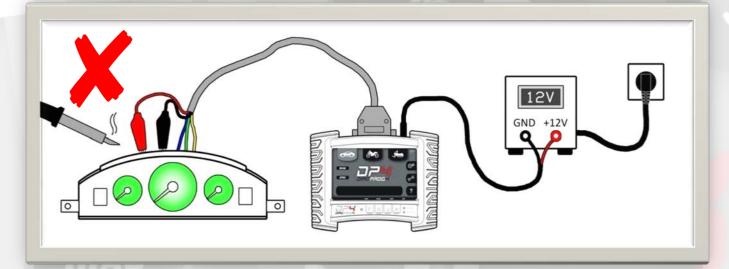
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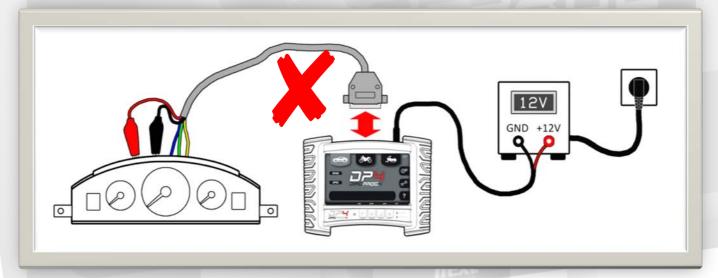


CORRECTING CONNECTIONS / SOLDERING

Do not solder any wires when the cable is connected to the DiagProg4!



<u>Do not disconnect and reconnect the cable to the DiagProg4 when the power</u> supply is connected!



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Correcting connections

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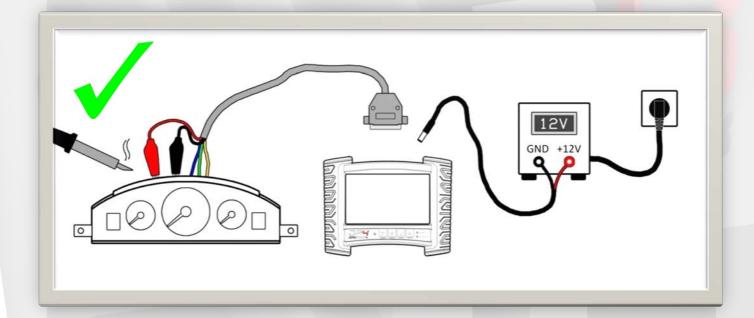
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CORRECTING CONNECTIONS / SOLDERING

If you need to correct the connections between the module/odometer and the DiagProg4, do the following steps:

- 1. Disconnect the power supply
- 2. Disconnect the cable form the DiagProg4 system connector
- 3. Correct your connections
- 4. Go back to step 3 of this guide



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Connecting cables with clip

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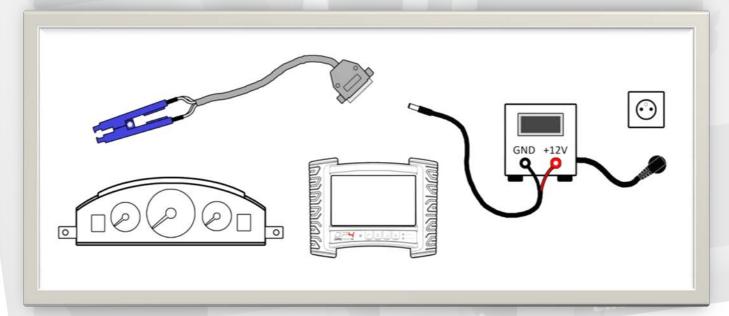
Working with DiagProg4 on the table: CONNECTING ODOMETERS - CABLES with CLIP

This document explains the procedure of connecting DiagProg4 with a module/odometer by using a cable ended with a clip. By not following the proper order of actions, we create a threat of breaking down DiagProg4 and the module/odometer we are trying to connect.

STEP 1

Prepare: the power supply, DiagProg4, module/odometer and the proper cable.

Make sure that all the cables and the power supply are disconnected, as in the picture below.



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Connecting cables with clip

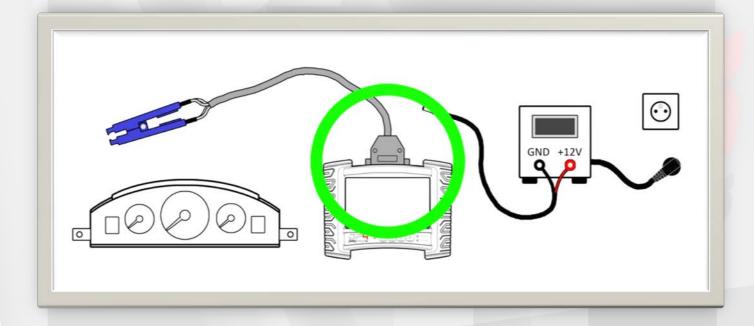
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STEP 2

Connect the cable to the DiagProg4 system connector.



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Connecting cables with clip

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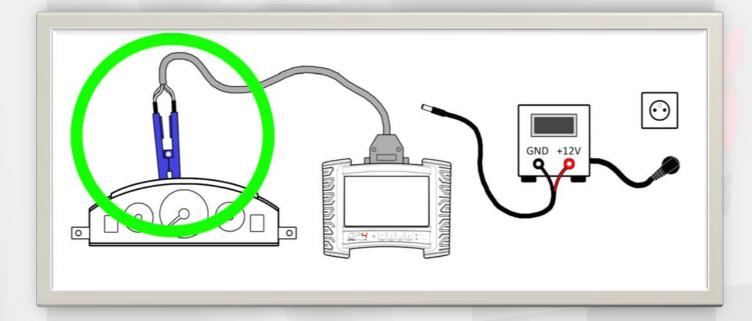


STEP 3

Connect the clips to the proper chip in the module/odometer.

Try to make sure that all the contacts of the clip are well aligned with the leads of the chip!

Make sure that the clip is firmly attached so that it won't fall of during the programming!



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Connecting cables with clip

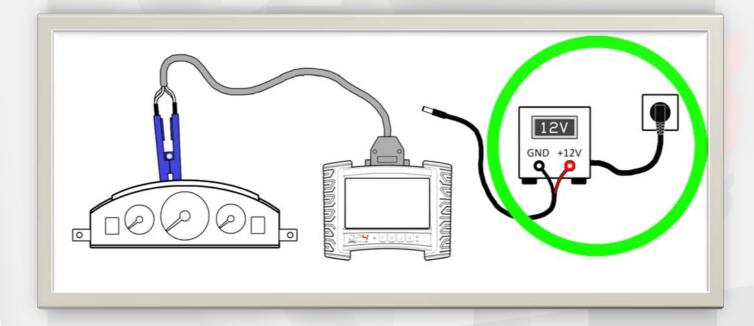
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STEP 4

Turn-on the power supply.



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Connecting cables with clip

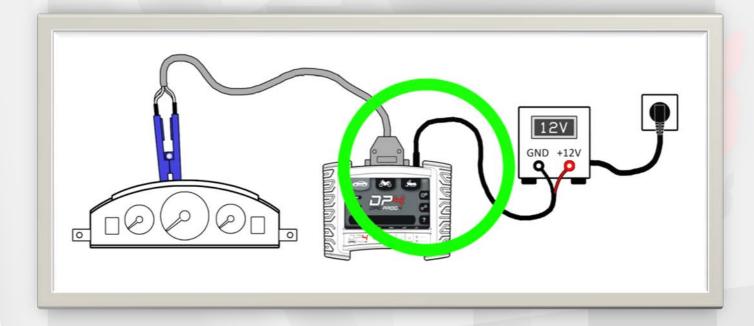
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STEP 5

Connect the power supply to the DiagProg4.



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Connecting cables with clip

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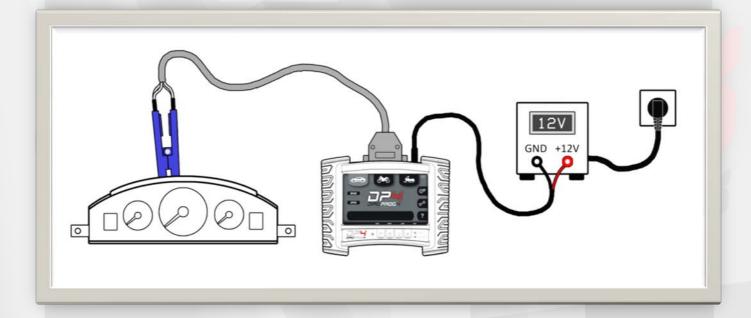
Date: 18/12/2015



STEP 6

DiagProg4 is ready to work.

Perform the programming.



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Connecting cables with clip

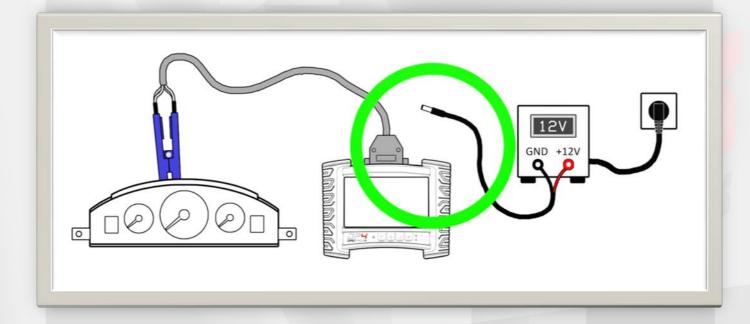
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STEP 7

After you finish your programming, firstly, disconnect power from DiagProg4.



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Connecting cables with clip

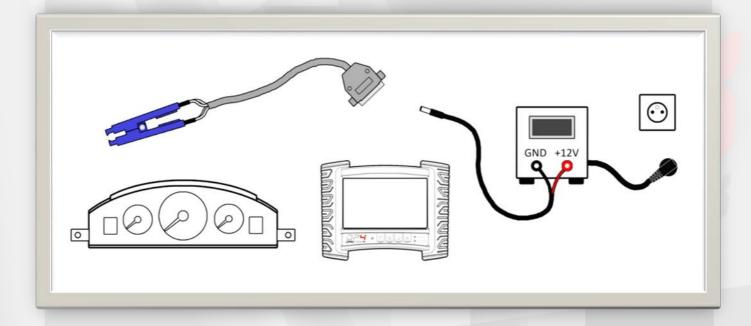
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STEP 8

Now, you can safely disconnect all the rest of the cables and finish your work.



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Correcting connections

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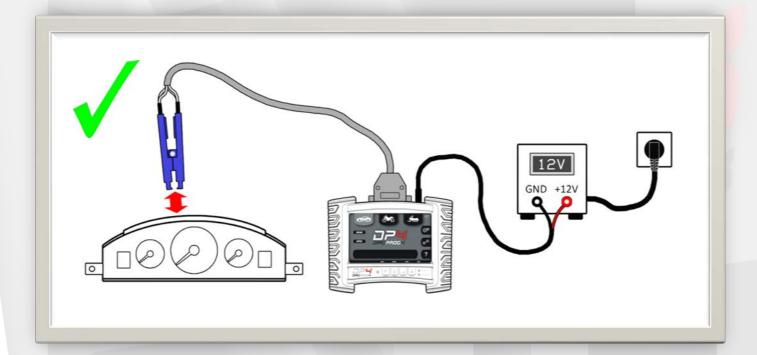
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CORRECTING THE CLIP CONNECTION

If the test shows that the clip isn't properly connected, it is allowed to correct the alignment of the clip with the power supply connected. However, extra care should be taken to make the corrections as precise as possible. Try not to make any short circuits between contacts!

<u>Don't connect any additional power supply to the module/odometer!</u>
The programmed chip is powered from the clip.



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Connecting to OBDII

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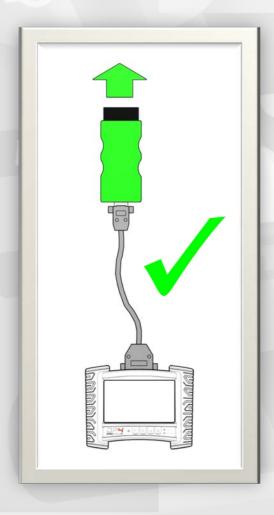
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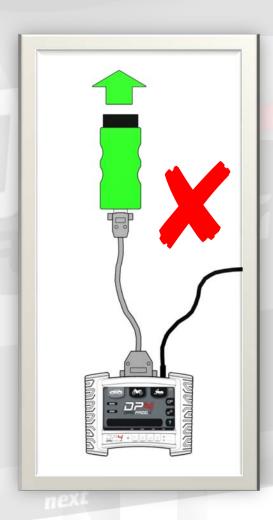


Working with DiagProg4 in the vehicle:

CONNECTING TO THE OBDII CONNECTOR

When you work with the diagnostic connector (using the D3 cable with Multiplexer), DiagProg4 is powered from this connector. **Don't connect any additional power supply!**





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