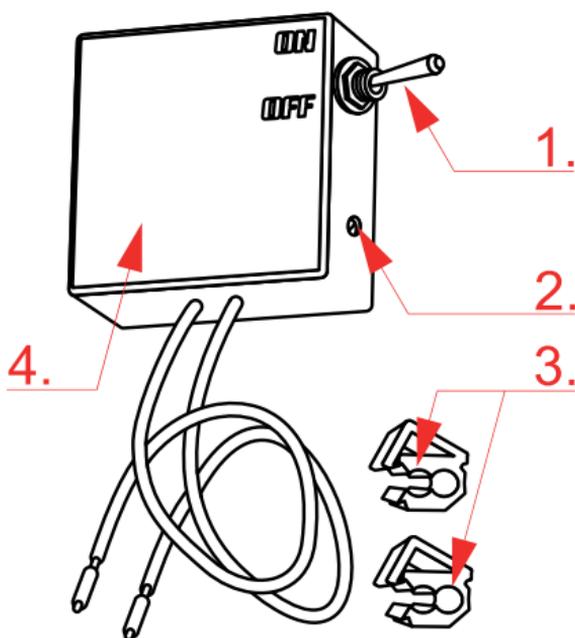




ProRacing® Chip Box Basic Series

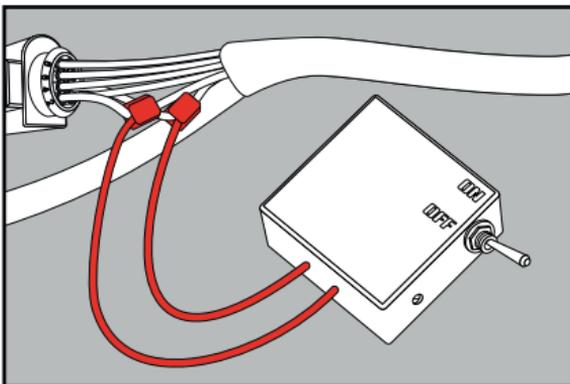
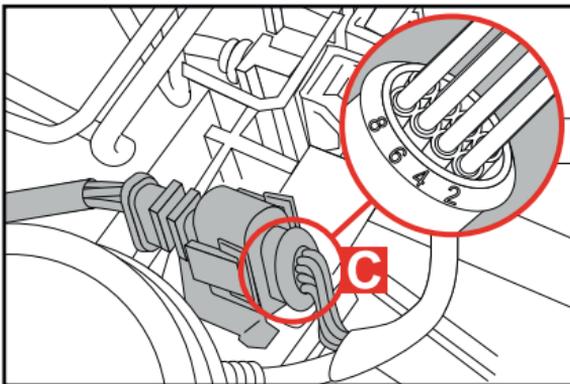
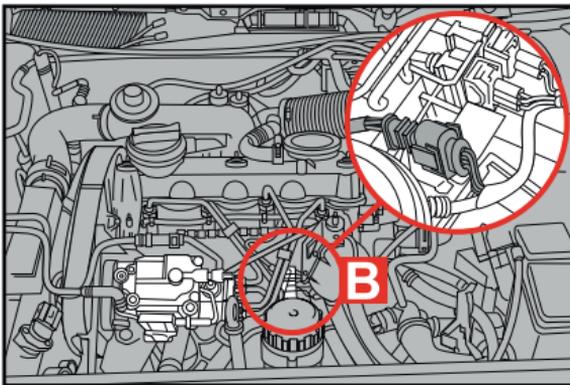
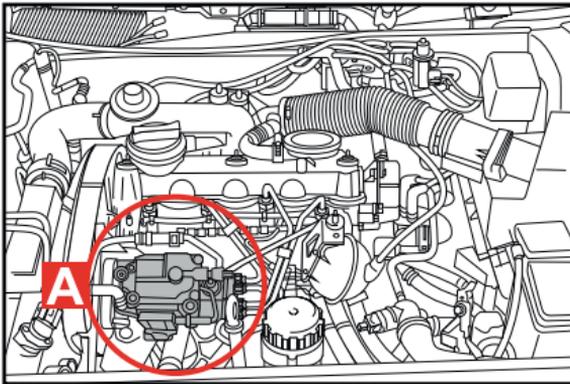
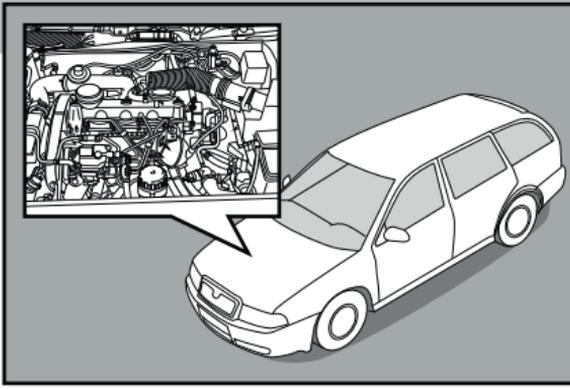
Description of the device.

The device is prepared for installation in the engine compartment, with the indicated wires at the plug of the fuel pump controller. As a result, we modify the data transmitted between the engine control unit (ECU) and the VP 37 rotary pump controller and the corresponding sensor, including fuel injection, fuel charge, turbocharger boost (in cars with turbo charger), air feed rate, engine speed, throttle position, injector opening time.



The device is equipped with:

1. ON / OFF switch; it allows controlling the operation of the device;
2. adjusting screw that allows you to change the device settings;
3. quick connectors for easy assembly;
4. solid housing made of a safe material.



Installation instructions.

Warning! Before installing the ProRacing® Chip Box 90/110, please ensure the ignition is turned off and the key is removed.

Step 1. Remove engine cover.

Remove the yellow plug with the dipstick to check the oil level. Check if the engine cover is fixed or clipped. Some covers are fixed with either nuts or bolts and will therefore need to be removed. These screws are hidden under small circular caps. Other engine covers are simply clipped and need to be pulled off.

Step 2. Find the VP37 pump [A].

Locate the VP37 rotary injection pump [A] - it is a device to which all the tubes that come out of the fuel injections come together.

Step 3. Locate the socket [B] with the 8 or 10-pin plug attached.

The socket may be permanently attached to the pump housing or be in a holder next to it (as in picture [B]).

Step 4. Read the numbering of wires on the plug [C] (on the example of an 8-pin plug).

The numbering of the wires is embossed on each plug. It is located on the flange of plug, on the back of the plug. Each number is assigned to a given wire. Cables with even numbers are on one side and odd on the other side of the plug.

The device should be connected to wires marked with number 2 and number 3 - they should be located beforehand.

Step 5. Connect the device according to the diagram.

The assembly is very simple and consists in connecting the wires from the chip into the indicated wires on the plug of the fuel pump. For assembly, you can use the quick connectors included in the set. Another way is the direct connection to the copper core of wires. For this purpose, carefully remove the insulation from wires 2 and 3 on a length of about 5 mm. Then connect the wires from the device to each of exposed cores - best way on the so-called „swivel”. Also it's a good practice to solder this type of connection. At the end, use insulating tape to protect the whole from moisture and other factors.

The common location of the plug.

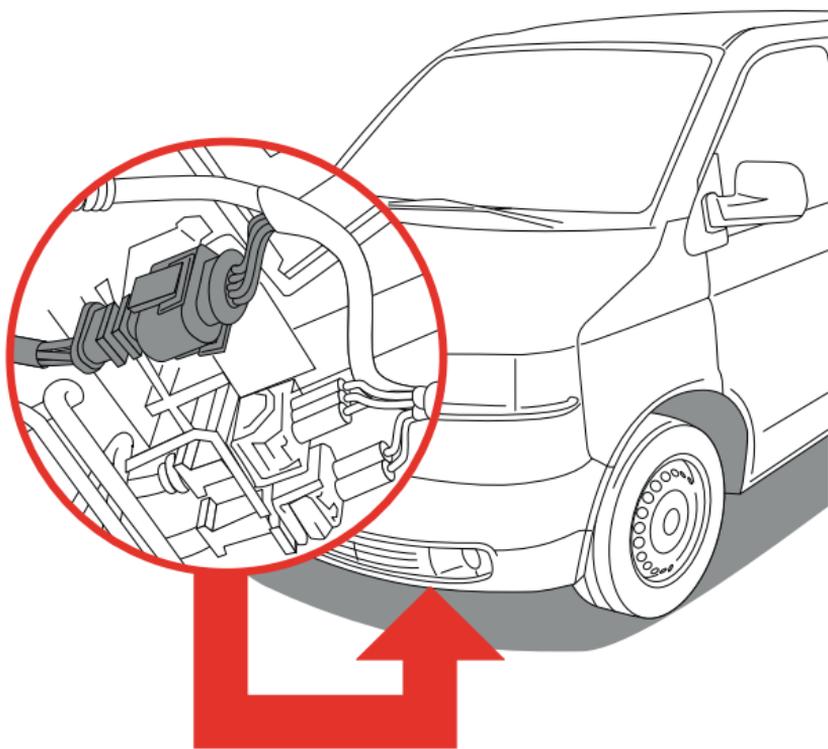


Installation in Volkswagen T4.

The installation is different in Volkswagen Transporter T4. The VP37 pump driver plug is located underneath the engine. To mount the ProRacing® Chip Box 90/110 you must first remove the motor cover.

Warning! The cover is mounted on a series of screws. Take particular care when loosening the screws! A falling cover can cause harm!

After uncovering the bottom of the engine, we should get direct access to the plugs coming from the VP37 rotary pump. The assembly takes place in the same way as described earlier.



If you want to see a video of the assembly of a similar device in Volkswagen T4, please visit our YouTube channel: <https://www.youtube.com/c/ProRacingMorepower>

Scan the QR code and watch the assembly video on Volkswagen T4 on YouTube.



Regulation of the device.

You receive a device programmed for your car. Chip Box should not be adjusted immediately after installing! After installing the device, the car should cover a distance of about 100 km (not necessarily in one drive.) The engine has to be heated up and cooled at least once so that ECU can completely read the parameters which are changed by Chip Box. Most often there is no need to perform additional regulation of the device.

Additional regulation with an adjusting screw is done only when:

- a glow plug or CHECK ENGINE indicator appear on a dashboard, the engine does not work in an even way or goes into emergency mode. The regulation is performed with a not working engine. The adjusting screw shown in the picture should be moved 4 turns to the right. Then the engine should be started and its work checked. The action should be repeated until the undesirabled symptoms disappear.
- when after covering the distance of 100 km you want to raise the power increase, the adjusting screw should be moved 2 turns to the left with a not working engine. Next, the engine should be started and its work checked. The action can be repeated until a satisfactory effect is obtained, but implementing new settings can be performed on condition of maintaining steady even work of an engine. If the engine starts working in an unsteady way return to turning the adjusting screw to the right.

The highest quality guarantee.

Certificate IPC: 7711/21
Certificate IEC: 61340-4-1

Our production meets the highest standards of international Association Connecting Electronics Industries and Polish and international standards of production. IPC® certifications are recognized around the world for guaranteeing the quality of our products and services in the electronics industry. The application of the PN-IEC production standards guarantees high quality and repeatability of the technological process.

