

# GEKOBX

## User Manual



# 1. Basic Information

GEKOBOX is an external programmable control computer designed to increase periodically the power and torque of the engine.

GEKOBOX is specifically designed to work with VW 1.6TDI engine factory fitted in cars brands: AUDI, SEAT, SKODA, VW.

GEKOBOX is a hybrid device combining the effectiveness of chiptuning, ease of installation, and non-detectability of devices such as Power-Box

GEKOBOX FOR TECHNICALLY EFFICIENT CARS ONLY!

GEKOBOX – basic advantages over standard chiptuning:

- Undetectable by diagnostic service systems- may be used in case of warranted cars
- EASY INSTALLATION AND REMOVAL - Self-installed equipment
- Possibility of Resale or Installation in other vehicles equipped with the same engine model

GEKOBOX – basic advantages over Power-Box devices

- Impossibility of the fuel pump damage due to high fuel pressure — Gekobox does not raise fuel pressure
- Obtaining a high level of SAFE POWER AND TORQUE INCREASE as in standard chiptuning
- Engine's Thermal Protection achieved via monitoring the exhaust gas temperature (EGT) and restricting gain in case of overheating
- WATERPROOF IP69 class

## 2. How it works

Gekobox is an external programmed control computer, designed on the basis of the latest technological achievements. The core of this device is a fast, 32-bit microprocessor, which reads and analyses the engine's parameters a million times per second. Basing on the gathered data and internal programmable fuel delivery maps and boost pressure, it decides when and how to increase the power generated by the engine. Gekobox is controlling the fuel dose by direct modification of the fuel injector control signal while increasing boost pressure. The process allows an appropriate ratio of fuel and air to be constantly kept. This applied technology permits the increase of power in exactly the same way as the engine's control computer does. There is no risk of the high pressure fuel pump and diesel particulate filter's damage as in case of standard Power-Box devices.

In addition, the exhaust gas temperature (EGT) is constantly monitored. It is the engine's most important parameter. Too high exhaust temperature indicates that the engine is operating in very inappropriate conditions or it is overloaded. In such situations Gekobox reduces or even turns off the intensification until the exhaust gas reaches optimal temperature.

"Safety first" was the principle for our team while constructing Gekobox. For this reason, the Gekobox device was equipped with a number of security features and diagnostic procedures which can detect even the smallest irregularity in its functioning. Each potential error will be recorded in the device's memory, analyzed and properly corrected. In case of damage, Gekobox will turn off and enable you to continue your journey safely.

The mounting kit contains an additional service connector. Mounted in place of the device, it allows the engine to operate without Gekobox, still with totally standard settings. During the installation of the service connector use the principles described below in the Concluding remarks section.

Gekobox is an external device, completely invisible for the engine's control computer and diagnostic equipment. Thus, it can be successfully installed and used in new cars under warranty, where chiptuning it can't be installed. Chiptuning is based on modification of the engine's control software. Such a modification is visible to and detected by all diagnostic devices that are currently used by Audi, Seat, Skoda, and VW diagnostic services. Detection results in the immediate delivery of an online information to the vehicle's manufacturer containing the car's VIN number, which leads to voiding of the warranty. Gekobox can increase the power of the engine without such a risk.

GEKOBBOX is resistant to all weather conditions. Protection: IP69

### 3. Concluding remarks

DO NOT INSTALL the Gekobox unit when the engine is running. For further work switch off the engine, pull out the key from the ignition and wait about 60 seconds to make sure that all electronic systems in the car are not working.

While installing the unit place a cable harness in the engine compartment carefully and ascertain that it is not situated near certain elements that may cause the harness abrasion while working. Before connecting the harness to the car's installation, it is recommended to purge the disconnected plugs with compressed air in order to remove the waste (e.g. sand) and check visually the condition of the wiring in search of signs of humidity influences.

DO NOT DISCONNECT the Gekobox device while the engine is running.

If it is necessary to remove the device, unplug it and remove the cable harness by following steps of installation in the reverse order. When the device is unplugged, remove the cable harness. Leaving the wire harness connected to the engine while the device is disconnected will prevent the engine from starting

In case of any doubts concerning the installation, please contact our company where the technical staff is ready to answer all your questions.

GEKO-CARS  
ul. Główna 23  
61-005 Poznań  
Poland

mail: [geko@gekocars.pl](mailto:geko@gekocars.pl)

