

# K-Box CGI M271 EVO Installation Manual



## Installation Manual for Mercedes-Benz 1.8l M27l EVO 180/200/250 CGI Turbocharged



This instruction manual provides a step by step process for installing the KLEEMANN K-Box CGI M27l EVO. It is recommended that you read the instruction manual completely before starting the installation of the K-Box to gain an overview of the entire process. If questions arise during the installation, you are welcome to contact us directly. We are ready to provide answers and assistance. It is essential for all involved that the installation is done correctly, the car performs flawlessly and the customer is satisfied.

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## Preparation



Make sure the ignition is turned off and the key has been taken out.



Before you disconnect the 2 sensors at the engine, you should open the bonnet, close all doors and lock the vehicle. Please wait about 4-5 minutes (on most cars you can hear a resounding "click" in the engine compartment) until the timer function of the Engine Control Unit is turned off.



## Installation

As shown in the picture, release the connectors to 2 sensors and remove it. Now plug the wiring harness between the sensor and the original plug (click).

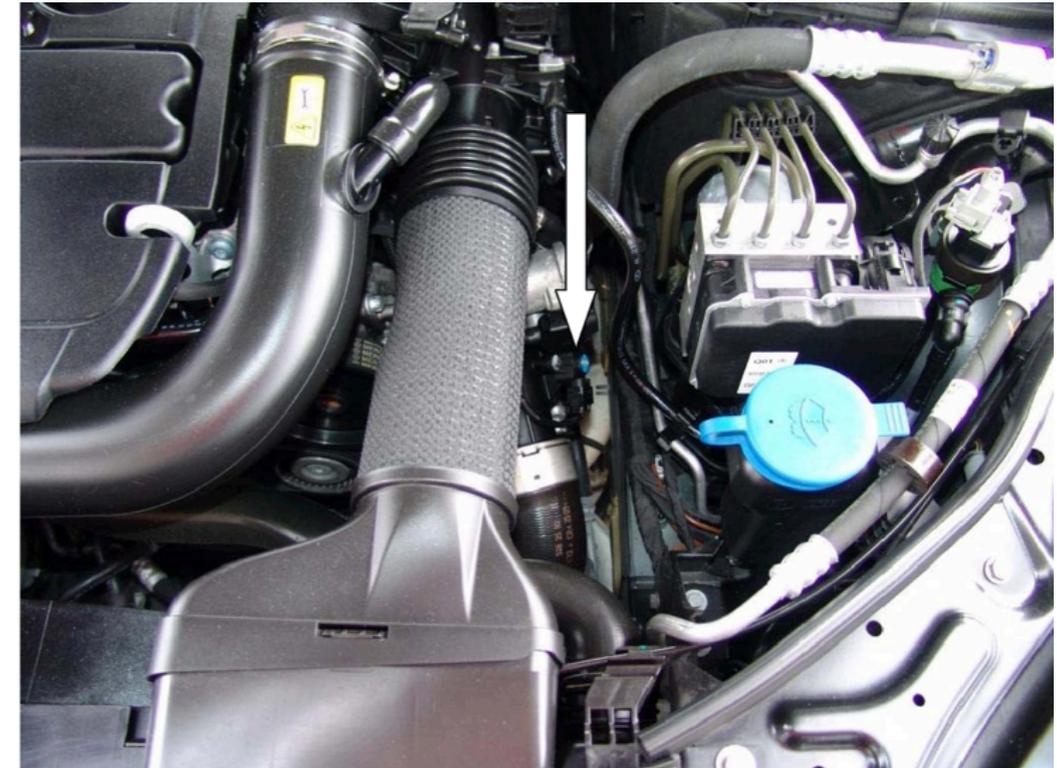
It does not matter which of the cable sets are used on the sensors. Please make sure to attach the cable with cable ties and the KLEEMANN module, to have sufficient space to parts of the engine (exhaust gas recirculation, turbocharger, exhaust manifold etc.)

Now connect the control unit with 25-pin connector on the wiring harness. Check all cable connections and make sure they are secure and correct installed.

The KLEEMANN module is essential to an appropriate place of install. Free from water, vibrations, protected from corrosive liquids (battery acid fumes).

Damage due to improper installation of the KLEEMANN module, will void any claim for damages.

Install engine cover and possibly other removed parts again.

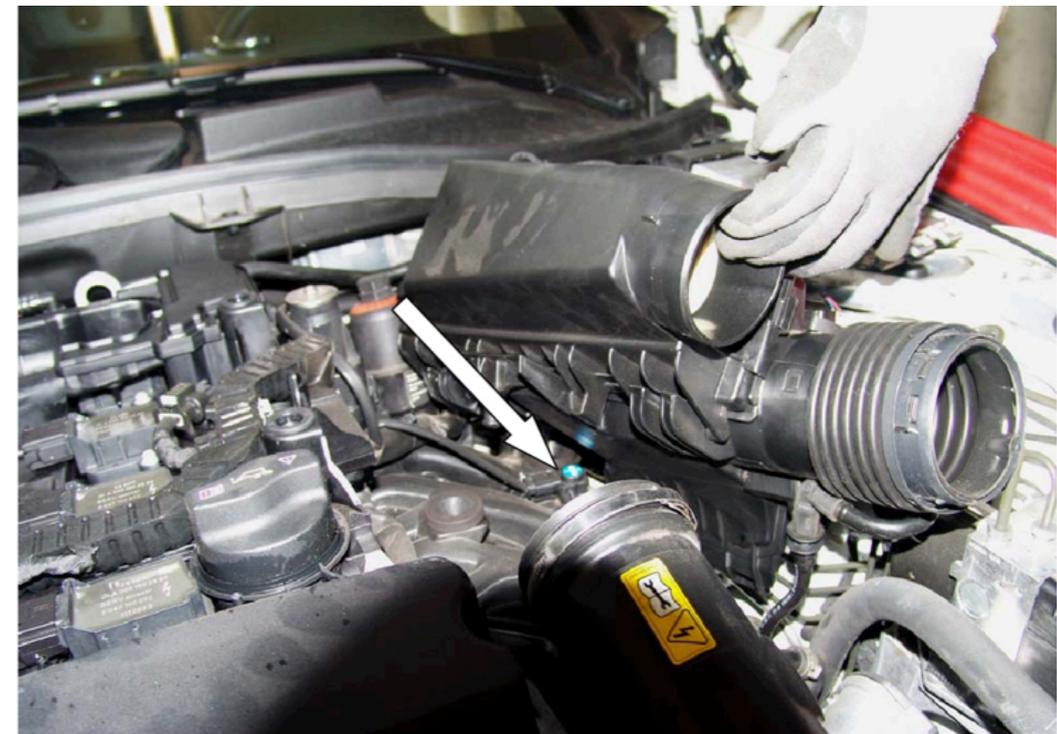


Sensor 1



Before driving, please use the self-test, which you will find on the next page.

Super Plus 98 Octane or 100 Octane to ensure the performance.



Sensor 2

# Self Test Description

## ECU

This description is used as a supplement to the instructions for KLEEMANN chip tuning box and explains the additional features of the model V6.

### Self-test and functional test (in the installed state)

Turn on the ignition, LED3-PWR begins to shine on the bottom - LED2- CH1 and LED1-CH2 flash for about 5 seconds alternately. Start the engine - enter idle and press hard the throttle, LED2-CH1 begins to shine on the bottom - thats it. (Depending on engine type and occupancy of the channels can additionally LED1-CH2 shine!)

**LED3-PWR shine = 5V power supply of the sensor active.**

**LED2-CH1 shine = signal acquisition, self-test and the communication of the active channel is okay.** (Depending on engine type and occupancy of the channels can additionally LED1-CH2 shine!)

The engine can be switch off. The self-test and functional test was successful.

