



**GÄN GA/GA+**

**SCHWARZ. SCHNELL. SICHER.**



## CONTENTS

<b>GENERAL INFORMATION</b> .....	<b>04</b>
<b>OPERATING MODES</b> .....	<b>05</b>
<b>INSTALLATION</b> .....	<b>07</b>
<b>SETUP VIA PC</b> .....	<b>09</b>
<b>SETUP VIA SMARTPHONE</b> .....	<b>11</b>
<b>SETTINGS SECTION IN THE APPLICATION</b> .....	<b>14</b>
<b>OPERATING AND INDICATION MODES</b> .....	<b>18</b>
<b>FUNCTION OF THE RESET BUTTON</b> .....	<b>19</b>
<b>TECHNICAL CHARACTERISTICS</b> .....	<b>20</b>
<b>WARRANTY</b> .....	<b>21</b>



GÄN GA/GA+ device has 3 operating modes (pic .1)

**DYNAMIC** - power increasing mode (By default)

**ECO** - fuel saving mode

**STOCK (OFF)** - turn off device

You can change the operating mode by connecting the device to your PC or Smartphone (for GÄN GA+ only). More detailed information can be found in the SETTINGS section.

After changing the mode the device begins calibration that takes 3 minutes. Please note that a 120 km drive is required before the device adapts to the engine control unit.



PIC .1

1. Find OBD-II connector in your vehicle.



Usually it is located under the steering wheel of the car. You can find the exact location of the OBD-II connector in the installation guide for your car.

2. Start your car and warm up the engine.
3. Plug device into OBD-II connector when the engine is running.

4. Depending on specifications you will receive a device pre-set for your car or without any settings. You can determine if the device has any settings from the mobile app or LED indicators (for GÄN GA+ only).

- **LEDs ARE SOLID BLUE, YELLOW, RED** - device is not pre-set. You can set up the device via your PC or Smartphone (for GÄN GA+ only), see the SETTINGS Section.

- **LED IS FLASHING RED** - device is pre-set, calibration is in progress. When plugged in for the first time, the calibration takes 3 minutes. After the calibration is finished the device is in the working mode (LED is solid green). A 120 km drive is required before the device adapts to the engine control unit.

You need Internet connection in order to set up your device via PC. Download GÄN PC from our website **[www.gantuning.com](http://www.gantuning.com)** in INSTALLATION section. Connect the device to your PC with a Micro USB cable and run the GÄN PC.

If your device has no vehicle specific data installed or you would like to program it for another vehicle, choose your vehicle in the program and click “Apply”, then necessary settings will be sent to the device. The device has a limit of 5 tune files for different vehicles. Retuning to the previously selected vehicle doesn't count.

The calibration begins after the device is installed in the vehicle. It takes 3 minutes. A 120 km drive is required before the device adapts to the engine control unit.

In order to setup other parameters, please see the SETTINGS section (page 13).

## **SETUP VIA SMARTPHONE (FOR GÄN GA+ ONLY)**

11

Please note that when the engine is off Bluetooth turns off to save your car battery. You need Internet connection in order to set up your device via Smartphone. Download GÄN APP from App Store (for iOS) or Google Play (for Android).

Follow steps 1 to 3 of the INSTALLATION section.

Connect to your device from the application. Enter the last 6 digits of the serial number of your device as a password.

If your device has no vehicle specific data installed or you would like to set it up for another vehicle, select your vehicle in the application. Then necessary settings will be sent to the device (pic. 2). The device has a limit of 5 tune files for different vehicles. Re-tuning to the previously selected vehicle doesn't count.

The calibration begins after the device is installed in the vehicle. It takes 3 minutes. A 120 km drive is required before the device adapts to the engine control unit.



IC. 2

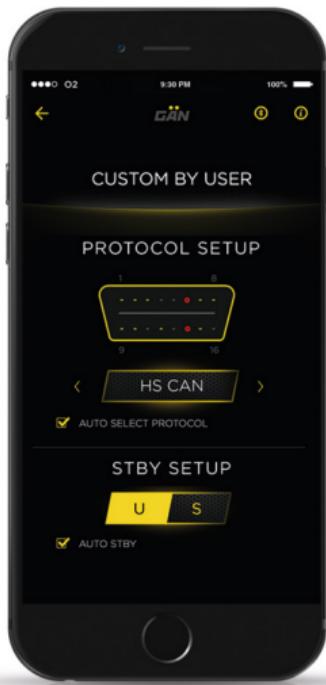
## MY VEHICLE

In this section you can change tuning files of GÄN GA+ in case you installed your device in another vehicle. You can give a name to your device so you can easily find it from the list of available devices. Just click on the current name in MY VEHICLE and enter a new name.

## ENGINEERING MENU

**CUSTOM by GÄN.** If your device has any issues with connection protocol in the automatic mode or other issues, our technicians can set up vehicle specific settings which can be applied by clicking this button. You can use this function only after you consult with our technical support.

**CUSTOM by USER. PROTOCOL SETUP.** This section is applied to manually program your device in case of malfunction. There are 12 connection protocols. The device determines the connection protocol automatically (Auto select protocol). You can also choose a connection protocol manually by clicking left/right arrows beside a protocol name. The device automatically selects the STBY mode (U or S).



**CUSTOM BY USER. STBY SETUP.** This section will help you set the Sleep mode. We recommend you to use Auto STBY.

**U** - the device wakes up depending on the voltage. As a rule voltage from the generator is higher with the engine running than voltage from the battery when the engine is off.

**S** - the device wakes up from the signals on the wires.

**LED INDICATION.** You can switch on/off the LED indicators of the operating mode in the Settings menu. If flashing distracts you after installation of GÄN GA+ LED, we recommend you to switch this function off.

**DEVICE HAS NO DATA INSTALLED FOR A SPECIFIC VEHICLE** – LED is solid blue, yellow, red.

**OPERATING MODE** – LED is solid yellow. Your device goes into the “soft indication” mode after one minute and brightness decreases down to 50%. You can switch the indication off via PC or Smartphone.

**STBY MODE (SLEEP MODE)** – LED is flashing yellow.

**CALIBRATION MODE** – LED is flashing red.

**DATA EXCHANGE VIA BLUETOOTH** (GÄN GA+ only) – LED is flashing blue.

**USB CONNECTION** – LED is solid red.

**HOLD** more the 5 seconds - LED is solid blue, yellow, red within 5 seconds. The device goes back to Default setup and calibration resets. Vehicle specific settings won't be deleted.

Used for:

1. A full device reboot and secondary adaptation to the vehicle.
2. In case your device doesn't get out of the Sleep mode when the engine is running.
3. Installation on another vehicle.

**SINGLE CLICK** in the STBY mode (for GÄN GA+ only)- LED is solid blue. Single click forcedly activates Bluetooth for a period of 30 seconds. It enables you to connect to the device in Sleep mode via Smartphone and change any available settings.

1. Size (L x W x H)- 68 x 49 x 24 mm;
2. Nett weight - 50 g;
3. Material- aluminum housing with carbon inserts;
4. Voltage Range - 8 V-25 V;
5. Current:  
in sleep mode - 2 mA,  
in operating mode- up to 80 mA;
6. Water resistance- IP 50;
7. Operating temperature: -40 °C - + 125°C\*

*\*Stable operation of Bluetooth -10 °C - + 65°C*

All of our products are covered with a 5-year warranty. The warranty starts when the device gets activated (when the first tune file gets downloaded). This information is saved on the server in GÄN Global System and every certified/authorized representative has access to it. In some countries the distributor can provide you with a device with vehicle specific data installed. If you want the warranty coverage to commence from the moment you started using the device, you should keep your proof of purchase. You can contact our authorized representative regardless of your location. If you don't know how to find a representative, please send us an e-mail at **support@gantuning.com** and we will help to solve your problem.

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M-GA /GA+-ENG-V1