



# Bike diagnostics

Powerful solutions for first-class  
motorcycle diagnostics

**Greater diagnostic  
potential =  
greater revenues**





**Experience and expert knowledge is a must for a successful business. However, if motorcycle workshops want to continue generating revenue, they, above all, require support in dealing with increasingly complex electronics. Since these systems are now also being used in two and three-wheelers. As with cars, initialising sensors, resetting values or switching systems on and off has become the order of the day.**

With the new upgraded bike software, Hella Gutmann provides comprehensive support for workshops. In this context, each workshop decides for itself whether it would rather work with a traditional diagnostic tool such as mega macs 56, or whether it wants to use the software-based diagnostic solution via a Windows-based output device of their choice. Either way, modern workshops for two-wheelers can conveniently create higher turnover.

#### **All major brands covered – with bike diagnostics from Hella Gutmann**

Communication with the electronic vehicle systems is part of the official maintenance regime for more and more manufacturers. Bike diagnostics from Hella Gutmann is equipped with all functions required in order to meet all manufacturer specifications. You do not require any additional software packages or expensive additional modules – simply start bike diagnostics and away you go.

#### **Tips for your daily work**

Anyone who uses bike diagnostics from Hella Gutmann will notice immediately that our developers clearly know their way around a motorcycle workshop. The vehicle selection, connection help, diagnostics and all important information are perfectly prepared, displayed in an instant and presented in a comprehensible way. Here, we pay special attention to ensuring that the system only includes motorcycles for which we can also provide corresponding useful information. With the scope of inspection, we at Hella Gutmann Solutions prove once again that we see “above average” as a minimum requirement.

#### **Diagnostics for two and three-wheelers**

Electronic injections, ride-by-wire systems or trouble code memories in the ECU – today it is impossible to perform diagnostics on many of the motorcycle brands without a diagnostic tool. Bike diagnostics from Hella Gutmann integrates perfectly into your day-to-day work and makes it easier than ever for you to enter the field of motorcycle diagnostics. The tool delivers detailed data for every vehicle, along with additional assistance about all trouble codes that are read out. The parameters help you in searching for problems and the actual values displayed for the respective parameters considerably reduce the repair times.

#### **Customer loyalty built in**

For the purpose of tracking the complete vehicle history and contacting the customer directly where necessary, all the results of your work can be documented in the “Car History” and printed out on request.

#### **Clearly displayed**

To ensure you always have an overview of all the relevant values during motorcycle diagnostics and troubleshooting, up to 12 parameters are available at the same time with mega macs 56 Bike, and up to eight parameters with graphics and valuable additional information are available at the same time with mega macs PC Bike.

#### **Plug and work**

Using plug and play, mega macs PC Bike can be installed easily – without complicated release procedures or activations. You can get to work and benefit from all the advantages of mega macs PC Bike right away. The diagnostic software can be installed with ease on any Windows-based computer, tablet or laptop. Installing the software solution on the corresponding terminal device ensures maximum flexibility in your work at the workshop.

#### **Bike diagnostics on a large scale**

With mega macs 56, you can kill two birds with one stone: the diagnostic tool features cutting-edge vehicle diagnostics. The diagnostic tool is also prepared for bike diagnostics ex works. Simply purchase the basic software, activate it and set to work increasing your turnover with maximum support.

If you want to find out more about mega macs 56, visit **[www.hella-gutmann.com](http://www.hella-gutmann.com)** or contact your Hella Gutmann sales partner.





### **mega macs 56 Bike**

mega macs 56 is particularly compact and quick when it comes to bike communication and interpretation of trouble codes. This all-rounder is fitted with an ultra-fast processor and offers the option of retrofitting a high-performance measuring technology module with an extremely precise multimeter. Together with mega macs 56, this will make you a diagnostics expert.



### **mega macs PC Bike**

The affordable software solution specially designed for motorcycle diagnostics. It can be installed in the blink of an eye using plug and play, and is immediately ready for use on any Windows-based workshop PC, laptop or tablet.



# The right adapter plug for each model

Aprilia: BAP01 · 3+6  
Item no. 8PZ 010 613-171



Aprilia: BAP02  
Item no. 8PZ 010 616-301

**New!**



BMW: BBM04 · 10  
Item no. 8PZ 010 613-201



BMW: BBM02 · 3  
Item no. 8PZ 010 613-241



Derbi, Gilera, Moto Guzzi, MV Agusta,  
Piaggio, Vespa, Malaguti, Adiva, Bimota,  
Cagiva Gas Gas, KVN Motors, Laverda  
Moto Morini, Sherco, Voxan: FIA01 · 3  
Item no. 8PZ 010 613-271



Benelli: BBE01 · 6  
Item no. 8PZ 010 604-161



CAN-AM: BRP01 · 6  
Item no. 8PZ 010 604-171



Ducati: BDU02 · 3+4  
Item no. 8PZ 010 613-261



Euro: BEN05  
Various manufacturers (Aprilia, Moto  
Guzzi, Vespa, Piaggio, Ducati, Honda,  
Kawasaki, Yamaha) from YOM 2018  
Item no. 8PZ 010 616-321

**New!**



Harley-Davidson/ Buell: YOM < 2011  
BHD01 · 4  
Item no. 8PZ 010 613-031



Harley-Davidson: YOM > 2011 BHD02 · 6  
Item no. 8PZ 010 613-211



Honda: BH001 · 4  
Item no. 8PZ 010 613-231



Honda: BH003 · 3+3 · 2+1  
Item no. 8PZ 010 613-251



Husqvarna: BHU01 · 6  
Item no. 8PZ 010 604-191



Hyosung: BHY01 · 6  
(New models only possible with the new  
connector item no. 8PZ 010 604-211)  
Item no. 8PZ 010 613-061



Hyosung: BHY02 · 4  
Item no. 8PZ 010 604-211



Kawasaki: BKA01 · 4+8  
Item no. 8PZ 010 613-091



Kawasaki: BKA02 · 4+6  
Item no. 8PZ 010 613-081



Kawasaki: BKA03 · 4+6  
Item no. 8PZ 010 604-141



KTM/Husaberg: BKT01 · 6\*  
Item no. 8PZ 010 613-101



Kymco: BKY01 · 3  
Item no. 8PZ 010 613-111



Linhai: BLI01 · 6  
Item no. 8PZ 010 604-151



MV Augusta: BMV01 · 4  
Item no. 8PZ 010 613-291



Peugeot: BPE01 · 3  
Item no. 8PZ 010 613-121



Piaggio: BVE01  
Item no. 8PZ 010 616-311

**New!**



Suzuki: BSU01 - 6  
Item no. 8PZ 010 613-281



Suzuki: BSU02 - 4  
Item no. 8PZ 010 613-221



SYM: BSY01 - 3  
Item no. 8PZ 010 613-191



Yamaha: BYA02 - 3+4  
Item no. 8PZ 010 604-201



Yamaha: BYA03  
Item no. 8PZ 010 613-311



VCC adapter  
Item no. 8PZ 010 613-321

**New!**



#### VCC adapter for additional 12V voltage supply

This new adapter provides an additional 12V voltage supply for vehicles with no ignition lock, such as motorsport models. It also makes it possible to use all old momacs 50 adapters with a current VCI where necessary.

## Battery management – the full charging know-how

BPC 1  
Item no. 8ES 004 417-321

- High frequency battery charger (12V, 1 A)
- For gel, wet cell, AGM and LiFePO4 batteries
- Charge function and charge retention function
- Recovery function for lead-acid batteries
- 9-stage charging and test phases
- With protection against polarity reversal and short circuit
- LED display
- Incl. battery lugs and terminal clamps



BPC Booster  
Item no. 8ES 004 417-311

- Ultra-light, professional jump-start device
- Recommended for all 12 Volt batteries of motorbikes, passenger cars and trucks
- LiFePO4: 100 % safe lithium battery
- With booster and supply function
- Complete protection against polarity reversal, short circuit, voltage error and overheating
- Microprocessor-controlled
- Professional clamps



BPC 8  
Item no. 8ES 004 417-281

- High-frequency battery charger (12V, 8A)
- For gel, wet cell and AGM batteries
- Charging, recovery and supply function
- 9-stage charging and test phases
- With protection against polarity reversal and short circuit
- Digital graphic display (illuminated)
- Incl. battery lugs and terminal clamps



BPC Mini  
Item no. 8ES 006 266-011

- Automatic charger for 6V and 12V batteries
- Housing made of fire-retardant plastic
- Safe to operate through overload protection
- With LED charge indicator
- Auto off
- CE approved



\* For models from the manufacturers Husaberg, KTM and Husqvarna without ignition lock, the additional voltage supply adapter VCC adapter (see adapter overview) is required.

\*\* The external voltage supply requires the red alligator clip (item no. 8PZ 010 607-171) and the black alligator clip (item no. 8PZ 010 604-121).

# At a glance

Whether you opt for the diagnostic tool mega macs 56 Bike or the software solution mega macs PC Bike, our Bike versions ensure that the most important functions for diagnostics and repair of all relevant motorcycle brands are available at your fingertips. And our engineers are constantly adding to the list of brands and models. You can download all the relevant data updates conveniently over the Internet. Modern motorcycle diagnostics could not be easier.

## mega macs 56 Bike

8PD 010 601-281

GENERAL DATA	
Display	Capacitive 10.4" (1024x768 XGA), no stylus required, improved user comfort requiring less pressure on display
Interfaces	USB (device & host), Wi-Fi, <b>Bluetooth®</b> , 1 x slot for multimeter module, 1 x reserve slot (for future additions)
Battery	All-in-one module, up to 5 hours running time, integrated charge controller for battery diagnosis
Docking station	For fast battery charging
Dimensions	310 mm x 265 mm x 100 mm (L x W x H)
Weight of mega macs 56	2200 g including battery and modules
Weight of VCI	80 g
Operating range outside	Max. 50 m
Operating range inside	3 – 10 m
Work area	0 – 45 °C, recommended: 10 – 35 °C
Battery charging voltage	12.5 – 8 V
Supply voltage	10 – 15 V
DELIVERY CONTENTS	
mega macs 56 with battery pack	
Alligator clips (red and black)	
VCI (wireless communication module)	
AC/DC adapter and AC power cord	
Bluetooth® adapter (wireless communication with your PC)	
USB cable (device & host)	
Quick Start Guide	
Lanyard	
Transport case	
OPTIONAL ACCESSORIES	
Bike adapter plug	
Docking station	
OBD cable extension	
Measurement module with cable accessories	
Battery (single) for mega macs 56	
Carry case for mega macs 56	
Clamp meter, blue, 0 – 700 A	
Clamp meter, green, 40 A	
LPD kit, Car + Bike	

## mega macs PC Bike

8PD 010 601-941 + 8PY 010 600-961

SYSTEM REQUIREMENTS	
Minimum	Microsoft Windows 7
Hardware	512 MB RAM, 2 GB hard disc space, USB 2.0 interface
Recommended	Microsoft Windows 7 (or higher)
Hardware	1024 MB RAM, 4 GB hard disc space, USB 2.0 interface
PC VCI DIAGNOSTIC MODULE	
Dimensions	110 mm x 50 mm x 26 mm (L x W x H)
Interfaces	Micro-USB, Bluetooth®
Operating range inside	3 – 10 m
Operating range outside	Up to max. 50 m
Data transfer rate	Max. 3 Mbit/s
Frequency band	2.4 GHz
Work area	0 – 45 °C / recommended: 10 – 35 °C
SOFTWARE	
Graphical user interface	
Intuitive menu navigation	
Print function	
DELIVERY CONTENTS	
PC VCI	
Pen drive with installation software and instructions	
Bluetooth® adapter	
USB cable (1.8 m)	
Alligator clips (red and black)	
Quick Start Guide	
Lanyard	
Mouse pad	
OPTIONAL ACCESSORIES	
OBD extension cable	
Bike adapter plug	

For the car workshops willing to perform some bike diagnostic, **mega macs 56** and **77** are already prepared for the Bike module. Just activate it and gas!

\* Optionally available.

## Product characteristics

- Read and delete trouble codes for all ECUs
  - Trouble code explanation with detailed information
  - Parameter depiction with graphics and explanations
  - Indicates location of diagnostic connector and name of required adapter
  - Actuator test
  - Coding
  - Basic setting
  - Service reset
  - Print function for all test results
  - Wireless communication
  - Regular updates\*
- and much, much more



**LPD-Kit, Car + Bike**  
Item no. 8PZ 015 265-501

## LPD-Kit, Car + Bike

Often it is the detail that causes the problem. With the Car + Bike LPD-Kit (low pressure diagnostic kit) from Hella Gutmann, you will be able to carry out all relevant pressure tests on your motorcycle in a single quick and easy work step. This allows you to find even the slightest deviations in a flash.

The LPD sensor is connected to the MT 56 and the vehicle by means of a measuring adapter. It is possible to measure pressure up to a maximum of 16 bar and negative pressure down to -1 bar. The mega macs 56 Bike is on hand to help with instructions and tips throughout the entire measurement process. You can take intake manifold pressure, fuel pressure, compression and cylinder pressure loss measurements – and the list goes on. The mega macs 56 provides all the information you need to be able to take measurements safely and correctly. All measurements can be logged with the date and the kilometre/mileage reading and can be printed out.

**Plus**, the smaller version of the standard LPD-Kit can also be used on petrol engines in passenger cars

- Compression test
  - Pressure-drop test
  - Fuel pressure test up to 16 bar
  - Intake manifold pressure test
- and much, much more





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