DIAG4 BIKE

ACTIA®
ACTIA CZ CZECH REPUBLIC

Professional diagnostics & tuning tool for workshops and tuning centers

ZODIAC ORIGINAL PARTS & ACCESSORIES

SALE REPRESENTATIVE MATERIAL





Equipment for Motorcycle Repair Shops and Tuning Centers FOR / FROM Professionals

Verze 18.3

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Last updated: June 26, 2018

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Serial diagnostics - HW

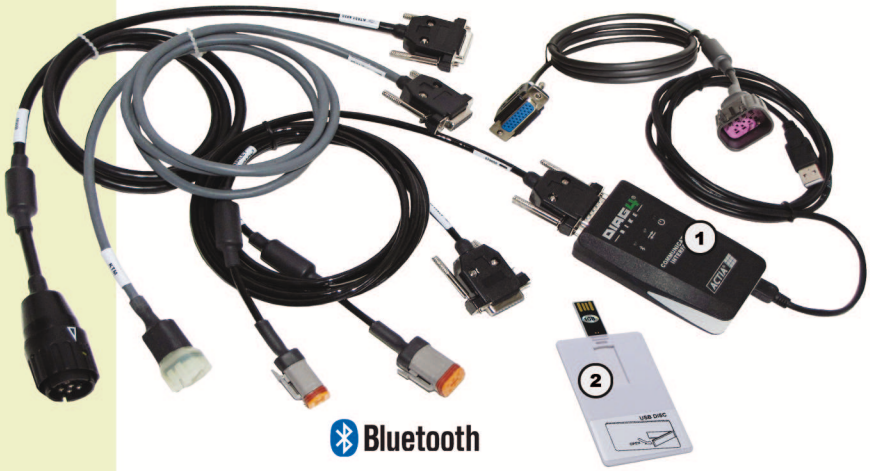
HARLEY-DAVIDSON® & BUELL®, BMW®, Indian® & Victory®

Our aim is to provide the user of **DIAG4BIKE** with a diagnostic tool that is comparable to the original diagnostic equipment for the brands in terms of common diagnostic operations.

It enables the user to perform diagnostics of electronic fuel injection modules and others (i.e. security modules, ABS etc.) through the diagnostic connector on the vehicle.The kit contains a **communication interface** with the necessary **adapter**(s),a **USB cable** for connection to your laptop (or PC) and **diagnostic software** that is compatible with **Windows 7, 8.1** and **10**. There is also a wireless **Bluetooth version** of the communication interface available.







	Reference	ZODIAC	ACTIA CZ
1	Communication interface USB	732050	AT532 5006
	Communication interface USB+BT	732051	AT532 5007
2	Software H-D® (includes H-D® adapters)	732056	AT531 5049
	Software BMW® (includes BMW® adapter)		AT531 5021
	SW Indian & Victory	732043	AT531 5051

EUROPEAN DISTRIBUTORS

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DIAG4 BIKE

Professional diagnostics & tuning tool for workshops and tuning centers

Serial diagnostics - SW

HARLEY-DAVIDSON® & BUELL®

Version 18.3

Includes functions to perform diagnostics of electronic fuel injection modules and others (i.e. security modules, ABS etc.) through the diagnostic connector on the motorcycle. The kit contains a communication interface with a **Harley-Davidson®** adapters, a **USB cable** for connection to your laptop (or PC) and **diagnostic software** that is compatible with **Windows 7, 8.1** and **10**. There is also a wireless Bluetooth version of the communication interface available.

- **Overview of control units that can be diagnosed and functions**

  Ignition Module
  EFI (Electronic Fuel Injection Module).....All models
  TSSM (Turn Signal Security Module).....Key FOB with button
  HFSM (Hands Free Security Module).....Key FOB without button
  BCM (Board Control Module).....Key FOB without button
  SCM (Security Control Module)
  Gauges (Speedo, Tacho and Instrument Module).....All models
  ABS Module (Delphi + CAN models).....All models
  Radio, Thunder MAX EFI (models with 4-pin Datalink connector)
  Read and Clear Diagnostic Trouble Codes.....All models, updated trouble codes, parameters and texts
  Read Identification data (parts number, VIN number).....All models
  Monitoring real-time data (throttle position, temperature, oxygen sensors, turn signals etc.)
  Test actuators (injectors, coils, main relay, fuel pump, idle, turn signals, tachometer, lamps etc.)
  Buell diagnostics is incorporated in Harley-Davidson diagnostics
  Unit of measure selection metric/american
  Communication interface is CAN ready (models with 6-pin Datalink connector)

- **Motorcycle report** (search for and identify all embedded control units, read fault code memory, erase fault code memory by one button, generate and print a diagnostic report, odometer reading, the diagnostic report is printed into pdf file after successful motorcycle report).



Functional set



Reference:
ZODIAC: 732056
ACTIA CZ: AT531 5049

Last updated: September 12, 2018

DIAG4 BIKE

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Professional diagnostics & tuning tool for workshops and tuning centers

Serial diagnostics - SW

HARLEY-DAVIDSON® & BUELL®

Version 18.3

- **Toolbox** (special functions in one place with description of the functions)

  Module replacement (TSSM, HFSM, BCM)
  ABS Service (Bleeding and configuration, Delphi + CAN models) - All models up to 2018
  ACR (Automatic compression release during starting)
  Cruise Control, Exhaust actuator, EITMS.....enable/disable
  Side Stand Switch configuration - All models
  Intake solenoid valve configuration on CAN models (6-pin Datalink connector)
  Radio customization - All models
  J&M Audio configuration
  ABS Telltale configuration on CAN models
  Radio pairing, Buell TPS adjustment, Speedo pairing (CAN models)
  Reset AFV (all models and Buell®)
  Idle speed adjustment - all models with Delphi Electronic Fuel Injection Module up to 2017
  for models 2018 is idle speed adjustment available in advanced or professional tuning
  TSSM Customization.....PIN read/change, Auto arming disable/enable, Key FOB assignment instruction
  HFSM Customization.....Key FOB assignment/replacement, PIN read/change,
  disable/enable: Auto arming, Sidecar, Service mode
  BCM Customization.....Key FOB assignment/replacement, PIN read/change,
  disable/enable: Auto arming, Sidecar, Service mode, Lights configuration, Keyless ignition
  Disarming (HFSM/BCM module).....PIN read/FOB assignment on armed bike
  (for BCM modules a CAN disarming cable is needed)

  TPMS configuration ..... BCM, Speedo, Radio
  TPMS ..... valve assignment
  Fork Lock Switch ..... configuration
  Wireless Headset ..... configuration

  Odometer units settings KM / MIL - All models
  Adding a button with a direct link to the On Line Help (www.doc4bike.eu)
  Displaying battery voltage



CAN disarming cable PWR

Reference:
ZODIAC: 732049
ACTIA CZ: AT531 4028

- **Demo version** - Available for download on the product website

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Update 18.x for motorcycles model year 2018 is sold solely on eShop

Diagnostics summary

HARLEY-DAVIDSON® & BUELL®

Version 18.3

Harley-Davidson Models	Year	EFI / IGN Modul (System)		TSSM / HFSM / BCM Modul / SCM	Instrument Module	Speedo Module	Tacho Module	ABS	Radio
Sportster	2003-2006	VDO IGN	B						
	2007-2018	Delphi	A	A	D	A	D	A	
Dyna	1999-2006	VDO IGN	B						
	(1995-2001)	Magneti Marelli	B						
	2006-2017	Delphi	A	A	D	A	D B (CAN models)	A	
Softail	(1995-2001)	Magneti Marelli	B						
	2001-2018	Delphi	A	A	D	A	D B (CAN models)	A	
Touring	(1995-2001)	Magneti Marelli	B						
	2001-2018	Delphi	A	A	D	A	D B (CAN models)	A	A
VRSC	2001-2017	Delphi	A	A	D	A	D	A	
Street	2016-2018	Delphi	A	B		A		A	
Buell Models	to 2010	A							
		Thunder MAX EFI	E						

Range of functions

A	ECU information	Read / Erase Fault	Parameters	Actuators	Special functions
B	ECU information	Read / Erase Fault	Parameters	Actuators	
C	ECU information	Read / Erase Fault	Parameters		
D	ECU information	Read / Erase Fault		Actuators	
E	ECU information	Read / Erase Fault			

Color code

Light Blue	Diagnosis is functional
White	Diagnosis is in development
Gray	Control unit is not occupied on a motorcycle
Yellow	What is new since last update

Abbreviations

ECM	Electronic Control Modul
TSSM	Turn Security Signal module (Key FOB with button)
HFSM	Hands Free Security Module (Key FOB without button)
EITMS	Engine idle temperature management system
ACR	Automatic compression release during starting
BCM	Board Control Module
SCM	Security Control Module

Last updated: September 12, 2018

DIAG4 BIKE

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Professional diagnostics & tuning tool for workshops and tuning centers

Serial diagnostics - SW

INDIAN® & VICTORY®

Version 16.1

Includes functions to perform diagnostics of all embeded control units through the diagnostic connector on the motorcycle. The kit contains a communication interface with a **INDIAN® & VICTORY®** adapter, a **USB cable** for connection to your laptop (or PC) and diagnostic software that is compatible with **Windows 7, 8.1** and **10**. There is also a wireless Bluetooth version of the communication interface available.

Models

Indian – 2014 - 2015
Victory – 2008 - 2015

Overview of control units that can be diagnosed and functions on all models

Engine control module
ABS control module
Gauge (Speedo, Tacho ...) module
Vehicle control module
Radio control module

Read Vehicle information
Read and Clear Diagnostic Trouble Codes
Monitoring Real-Time data

Motorcycle report

Search for and identify all embedded control units, read fault code memory + generate and print a diagnostic report

Under preparation

Actuators testing
Victory models 2007 and older

Software Kit included

Adapter Indian® & Victory®
SW installation on USB disk
SW licence code



Reference:
ZODIAC: 732043
ACTIA CZ: AT531 5051

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DIAG4 BIKE

Professional diagnostics & tuning tool for workshops and tuning centers

Engine tuning HARLEY-DAVIDSON®

TUNING STRATEGY

- The tuning system focuses on Harley-Davidson engines equipped with DELPHI EFI (diagnostic communication J1850 or CAN)
- The tuning system is based on diagnostic system **DIAG4BIKE**. **DIAG4BIKE** is the professional diagnostic tool for Harley-Davidson Motorcycles. The tuning software **DIAG4TUNE** is included in the diagnostic software from Version 12. To tune an individual motorcycle a TUNING DONGLE (or EASY TUNING DONGLE) must be purchased that can be used for that specific motorcycle. It is recommended to use last version of **DIAG4BIKE** software for diagnostic or tuning.
- The tuning process does not require the installation of additional component(s) or any motorcycle harness modification. Tuning is based on the modification of EFI Calibrations (software modification) exclusively via the diagnostic connector.
- The first step in Tuning is storage of the original EFI Calibration. The tuning operator can restore the original EFI Calibration at any time during tuning process (stock calibration).
- The tuning process is used to optimize Fuel Maps in case of any changes to the configuration of engine components or accessories (exhaust or/and intake system etc.)

AVAILABLE TUNING METHODS

1. EASY TUNING - manual adjustment

This method is the low cost tuning represented by EASY MODE in tuning software **DIAG4TUNE.** EASY MODE provides the ability to adjust Fuel Trim table, Acceleration Enrichment, Spark Advance table manually in a limited range of +/- 20%, switch On/Off Lambda Closed Loop and Throttle By Wire speed up. Other functions are restricted.

Necessary Tuning Components:

DIAG4BIKE



Functional set

EASY TUNING DONGLE



Reference
ZODIAC: 732 039
ACTIA CZ: AT531 4094A

2. ADVANCED TUNING

By this method of the tuning is possible to use full range of **DIAG4TUNE** functions. The method provides ability to use an embedded database of calibrations. These calibrations (maps) are pre-set for several configurations of exhaust and intake components (open exhaust, intake and combinations). Advanced tuning method provides important improvement of engine functions. The best engine efficiency is possible to rich only by using PROFESSIONAL TUNING method.

Necessary Tuning Components:

DIAG4BIKE



Functional set

TUNING DONGLE



Reference
ZODIAC: 732 045
ACTIA CZ: AT531 4094

DIAG4 BIKE

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Professional diagnostics & tuning tool for workshops and tuning centers

Engine tuning

HARLEY-DAVIDSON®

3. PROFESSIONAL TUNING - engine fuel maps optimization

By this method of the tuning is possible to use full range of **DIAG4TUNE** functions. The key function is here VOLUMETRIC EFFICIENCY MAP MEASUREMENT under load. It means real VE maps measurement of each engine configuration. VE map measurement can be done on an appropriate Roller Station, good example is SMART POWER BENCH, or during Road Test on the street. Professional tuning method provides the best bike tuning for each special engine - maximal efficiency, torque and power.

Necessary Tuning Components:

DIAG4BIKE



TUNING DONGLE



AFR TUNING MONITOR

Reference
ZODIAC: 732 044
ACTIA CZ: AT106 4016



Useful Tuning Components:

THROTLE CONTROL LIMITER



Reference
ZODIAC: 732 046
ACTIA CZ: AT531 4097

KIT-ADAPTER FOR OPEN EXHAUST (option)



Reference
ACTIA CZ: AT106 4047

SMART POWER BENCH with aluminium ramp



Reference
ACTIA CZ: AT531 4098



INSTALLATION SET LAMBDA

Reference: ZODIAC: 732 042
ACTIA CZ: AT106 4020

Blank ECM Flash

This function is used to flash a new blank ECM. By this function you can set a VIN number and after flash the selected calibration according to the VIN number. It can be also done for the used ECM. If this function is successful you can do full range of the DIAG4TUNE functions.

DIAG4BIKE



TUNING DONGLE

Reference
ZODIAC: 732 045
ACTIA CZ: AT531 4094



DIAG4® BIKE News

Version 18.3

Professional and Easy tuning is available for H-D® models 2006-2018

Advanced tuning maps available for H-D® models 2006-2018 (see below)

DIAG4BIKE® Maps	H-D®- SE Equivalent	Engines	Components	Note
Level 0		All	Stock Intake and Exhaust	*Equal to Stock*
Level 0 Plus		Milwaukee-Eight	Stock Intake and Exhaust	*Driving Comfort increasing*
Level 0,5		Evolution	Open Intake (KN, SE)	*Transition Level 0-1*
Level 1		All	Open Exhaust	
Level 1,5		Evolution	Open Intake and partly open Exhaust	*Transition Level 1-2*
Level 2	Stage 1	All	Open Intake and Exhaust (SE Components)	
Level 3	Stage 2	Twin Cam, M8 2012-2018	Camshaft, Open Intake and Exhaust (SE Components)	*Newly available in current up-date 18.3*
Level Custom	Stage 3,4	All	Custom Configuration	*Available On Demand*

Advanced tuning exceptions: Advanced tuning Level 1-4 is not available for:
Softail, Touring model year 2006, CVO, SE models 2006-2011, for Street and XR models

Tuning News in up-date 18.3 summary: Level 3 for Touring, Softail, Dyna model year 2012-2018 (SCREAMIN´ EAGLE® Stage 2 equivalent)
Level 2,3 for CVO and SE models 2012-2018

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Models for tuning

and Blank ECM Flash - HARLEY-DAVIDSON®

Version 18.3

Professional diagnostics & tuning tool for workshops and tuning centers

DIAG4 BIKE

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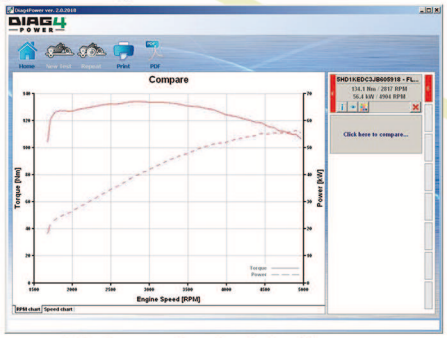
Smart Power Bench

power bench for bike diagnostics and tuning

SMART POWER BENCH (SPB) 2nd Generation (with gearbox)

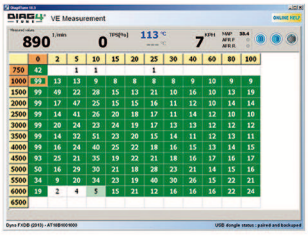


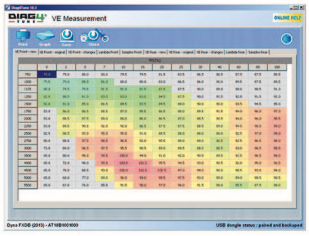
- The station may only be operated by a trained person
- Simulates engine load equivalent to road test - **Gear 1**
  - Simulates double load for comfortable tuning measurements (VE maps) - **Gear 2**
  - Provides measurements for both power and torque curves - **Gear 1**
    - Facilitates measurement of VE maps for engine tuning
    - Provides the opportunity to carry out engine diagnostics whilst under load
      - Utilises built-in fan for engine & rear tyre cooling
      - Embedded protection of rear tyre



SPB is an ideal tool for motorcycle specialists who carry out bike repairs and servicing, ECU diagnostics and especially engine tuning. **SPB** gives you more than basic measuring capabilities. It is able to simulate the engine load without the hazards associated with road tests, under both stable and dynamic conditions. Utilising a large roller with high moment of inertia & specially adapted fan assembly is equivalent to the motorcycle and rider mass and drag caused by air flow.







SPB is designed to complement the range of equipment available in the DIAG4BIKE family and is especially well suited for the tuning of Harley-Davidson engines.

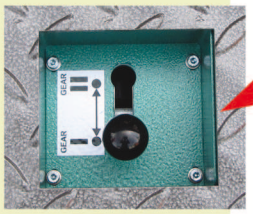
DIAG4POWER is our new software program allowing full control of measurements with SMART POWER BENCH.

SPB specifications

- Weight : 550 kg
- Dimensions: 2,8m x 0,5m x 1m (W x H x D), 110" x 20" x 40"
- Roller diameter: 450 mm, 18"
- Mass moment of inertia of the system: ~12 kgm2 (see label on SPB) - **Gear 1**
- Measurement range of engine power: 10 – 250 kW
- At load, power input of the fan is mainly given by the built-in load fan, and is dependent on the engaged gear of the station (the following data is for illustration only):

Gear 1
  - o 10 kW at 100 km/h (60 MPH)
  - o 30 kW at 150 km/h (90 MPH)
  - o 70 kW at 200 km/h (120 MPH)

Gear 2
  - o 10 kW at 50 km/h (30 MPH)
  - o 30 kW at 75 km/h (45 MPH)
  - o 70 kW at 100 km/h (60 MPH)



- Maximum driving speed (peripheral speed of the roller):
  - o Gear 1: 225 km/h, 140 MPH
  - o Gear 2: 110 km/h, 68 MPH
- Connection to PC: RS 232 or USB
- Required PC operation system: W7, W8, W10
- Power supply of the station: 230V AC or 12V DC with power of 24 W. Power supply can therefore be provided from a 12V vehicle battery.
- The operating temperature range of the station: +10 to +40 °C
- Cooling of rear tire: provided automatically by the built-in fan
- Temperature measurement of the rear tire: IR measurement
- Remote control: IR (infra red)
- Measuring ambient air pressure: 870 to 1100 hPa (at sea level)

Notable features of SPB

- Fast & Simple installation without the need for building works or anchorage
- Intuitive usage and simple maintenance
- Cost effective high quality solution produced 100% in Europe (product of the Czech Republic)



Reference
ACTIA CZ: AT531 4098

Last updated: September 19, 2018

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DIAG4® BIKE

Professional diagnostics & tuning tool for workshops and tuning centers

Smart Power Bench

Standard accessories

Intake air temperature sensor



-9°C to 70°C

Contactless infrared thermometer



0°C to 200°C
measuring engine temperature
measuring tire temperature

Software Diag4Power



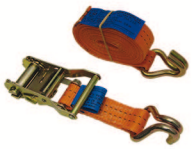
Ignition sensor SPB



Speed Measurement



Footer adapter



Clampingstraps for motorcycle



Wireles inrared remote controller

Option



Trolley with PC for SPB

Kit includes:
- Trolley
- Industrial box PC with OS
- Monitor 21.5" with Touchscreen *)
- Ink color printer
- Keyboard and mouse

*) Trolley with PC for SPB without Touchscreen

Reference
ACTIA CZ: AT857 5016 ; ACTIA CZ: AT857 5015 *)

New

Diag4Bike

Speed reading

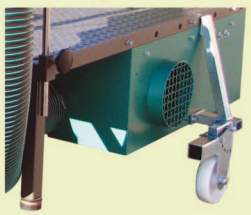
Reference
ZODIAC: 732056
ACTIA CZ: AT531 5049



Functional set

Diagnostic and Tuning System DIAG4BIKE for H-D®
It allows to read the engine parameters for power and torque measurement directly from the H-D® diagnostic connector (engine speed and temperature, TPS position, VIN number)

Transport wheels for SPB





Refernce
ACTIA CZ: AT533 4074



Additional motorcycle cooling

This powerful Axial Fan is useful equipment for additional engine cooling while using the Smart Power Bench. The fan is equipped with two power levels. Power levels are switchable between level 1, level 2 and auto. The Auto level is dedicated for Tuning Measurements (VE maps measurement). The Smart Power Bench automatically controls the power level of the fan dependent on engine temperature.

Refernce
ACTIA CZ: AT131 4002

Level 1 - Electric Power 0.5 kW, Airflow 4 700 m3/h, Air speed 26 km/h
Level 2 - Electric Power 2 kW, Airflow 11 000 m3/h, Air speed 60 km/h

Exhaust gas extractor

This powerful Radial Fan is designed for extraction of exhaust gases from motorcycles during power tests and during tuning measurements. The fan is equipped with adapters for one side and two side motorcycle exhaust pipe configurations. The fan output is connected to the hose diameter of 305 mm with a length of 3 m. Electric Power 3 kW, Airflow 6000 m3/h



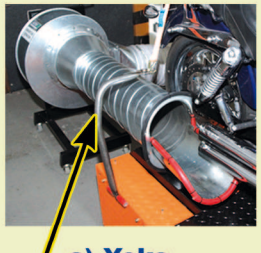
Reference
ACTIA CZ: AT131 4001



a) One side exhaust pipe
– diameter 250 mm



b) Duo sides exhaust pipe
– diameter 2x200 mm



c) Yoke

Last updated: September 12, 2018

DIAG4 BIKE

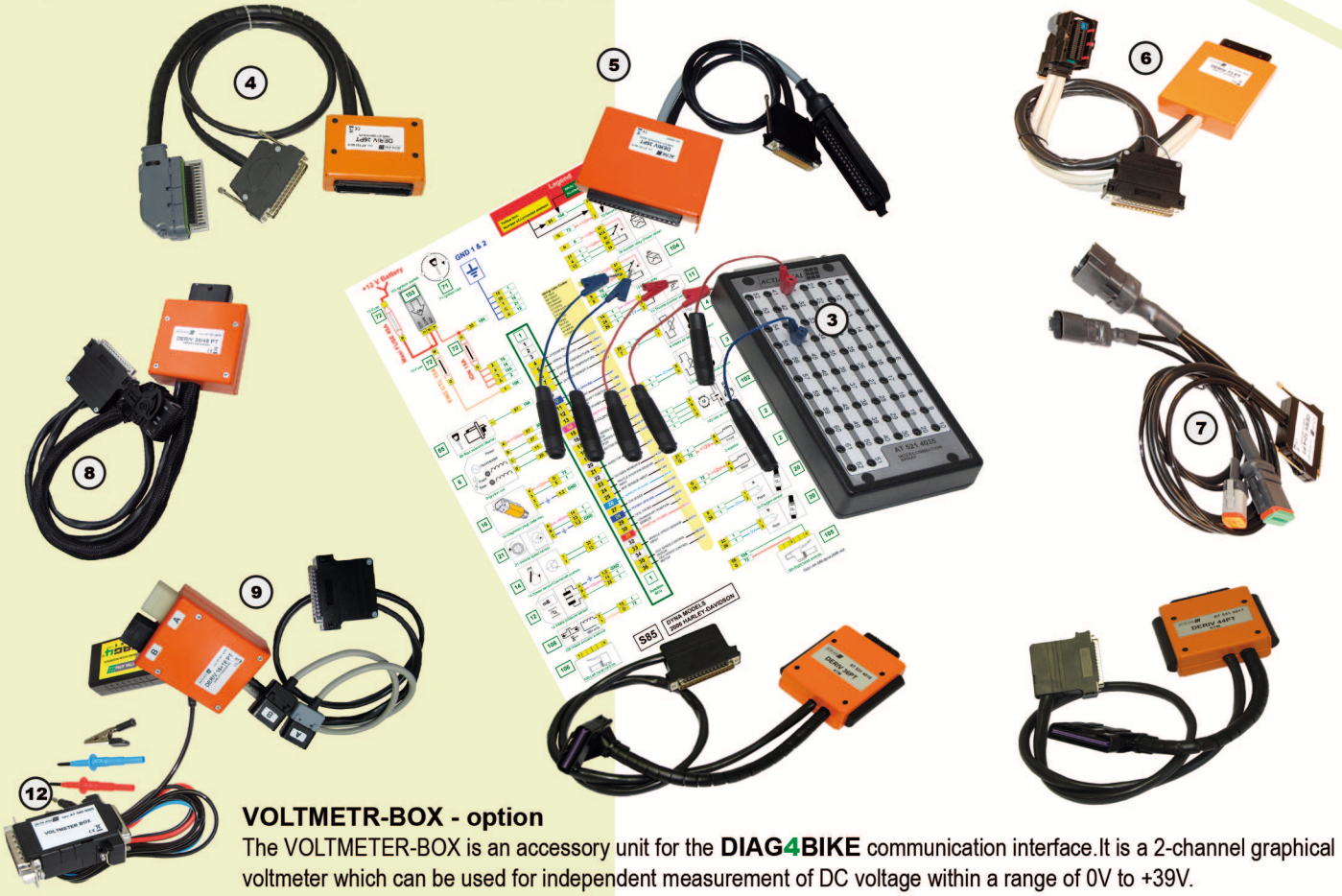
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Professional diagnostics & tuning tool for workshops and tuning centers

Parallel diagnostics

HARLEY-DAVIDSON® & BUELL®, BMW®

Parallel diagnostic equipment is designed for measuring input and output signals to and from the electronic control unit (ECU) which is typically used in modern vehicles to control engine functions. However, it can also be used for measurements on other control units installed in vehicles. Measurements can be carried out on a system that is in operation (i.e. a running engine).



VOLTMETR-BOX - option

The VOLTMETER-BOX is an accessory unit for the **DIAG4BIKE** communication interface.It is a 2-channel graphical voltmeter which can be used for independent measurement of DC voltage within a range of 0V to +39V.

	Reference			ZODIAC	ACTIA CZ
3	Breakout diagnostic box 62P			732053	AT521 3037
4	Deriv (T-Adapter) 36P	H-D®	EFI Delphi	732054	AT531 4014
5	Deriv (T-Adapter) 35P	H-D®, BMW®	EFI MM	732055	AT531 4015
6	Deriv (T-Adapter) 73P	H-D®	EFI Delphi (Touring models)	732058	AT531 4064
7	Deriv (T-Adapter) 12+4P	H-D®	TSM/TSSM/HFSM	732059	AT531 4077
8	Deriv (T-Adapter) 36/48P	H-D®	BCM	732048	AT531 4073
9	Deriv (T-Adapter) 18/18P	H-D®	EFI Delphi	732047	AT531 4078
12	Voltmeter BOX			732057	AT540 5005

ACTIA CZ CZECH REPUBLIC

DIAG4 BIKE

Professional diagnostics & tuning tool for workshops and tuning centers

Serial diagnostics - SW

BMW®

Version 15.3

Includes functions to perform diagnostics of all embeded control units through the diagnostic connector on the motorcycle. The kit contains a communication interface with a BMW® adapter, a USB cable for connection to your laptop (or PC) and diagnostic software that is compatible with **Windows 7, 8.1** and **10**. There is also a wireless Bluetooth version of the communication interface available.

Control units

Engine control units - ENG
Brakes - ABS
Body electronics - ZFE (ESA included)
Body electronics on new models - ESA, BCO, FSA, ASW
Tyre pressure control - RDC
Anti-theft alarm system - DWA
Instrument cluster - Kombi
Audio



Functional set

Diagnostic functions

Read and Clear Diagnostic Trouble Codes
Read Identification data
Monitoring real-time data
Test actuators

Special functions

Read and Set service date
Read and Set remaining distance to the service
Adaptation values reset
Adaptation of the tank ventilation system reset
Over-revving Analysis
Idle air control calibration
Date adjustment
Clock display 12h/24h
Outside temperature display °F/°C
Tyre pressure display bar / kPa / psi
Complete configuration (ABS, ESA, ...) of Instrument cluster
Units of consumption display (l/100km, km/l, mpg(GB), mpg(US))



Reference
ACTIA CZ: AT531 5021

Motorcycle report

Search for and identify all embedded control units, read fault code memory + generate and print a diagnostic report

Comming soon

Body electronics configuration
RDC configuration

Last updated: June 7, 2018

DIAG4 BIKE

ACTIA ACTIA CZ CZECH REPUBLIC

Update 15.x for motorcycles model year 2015 is sold solely on eShop

Diagnostics summary

BMW®

Version 15.3

Models		Engine	ABS	Body electronics (ZFE), ESA if included	Body electronics ESA, FSA, ASW, BCO	Instrument cluster	Anti-Theft Alarm (DWA)	Tyre Pressure Control (RD)	Radio	Audio
Enduro	F 650 CS, GS, Dakar	E	C							
	F 650 GS (od 2008)	A	C	B		A	E	E		
	F 800 GS	A	C	B		A	E	E		
	G 450 X	A								
	G 650 GS	E	C							
	G 650 X...	E	C							
	R 850 GS									
	R 1100 GS									
	R 1150 GS (Adventure)	C								
	R 1200 GS (Adventure)	A C (2015)	C	B	E (2015)	A E (2015) + Service reminder reset	E	E		
Tour	F 800 ST	A	C	B		A	E	E		
	K 1100 LT									
	K 1200 GT (od 2004)	A	C	B		A	E	E		
	K 1200 GT, LT									
	K 1300 GT	A	C	B		A	E	E		
	K 1600 GT, GTL	C	C		E	E + Service reminder reset	E	E		E
	R 850 RT									
	R 1100 RT									
	R 1150 RT	C								
	R 1200 ST, RT	A	C	B		A	E	E	E	E
Sport	F 800 S	A	C	B		A	E	E		
	K 1100 RS									
	K 1200 R Sport, S	A	C	B		A	E	E		
	K 1200 RS									
	K 1300 S	A	C	B		A	E	E		
	R 1100 RS, S									
	R 1150 RS	C								
	R 1200 S	A	C	B		A	E	E		
	S 1000 RR	A	C	B		A	E	E		
Urban	F 800 R	A	C	B		A	E	E		
	K 1200 R	A	C	B		A	E	E		
	K 1300 R	A	C	B		A	E	E		
	R 850 R									
	R 1100 R									
	R 1150 R	C								
	R 1200 R	A	C	B		A	E	E		
High Performance	HP2 Enduro	A	C	B		A	E	E		
	HP2 Megamoto	A	C	B		A	E	E		
	HP2 Sport	A	C	B		A	E	E		
	R 1200 S HP2	A	C	B		A	E	E		
Cruiser	R 1200 C, CL	C								
Scooter	C1, C1-200	E	C							

Range of functions

A	ECU information	Read / Erase Fault	Parameters	Actuators	Special functions	
B	ECU information	Read / Erase Fault	Parameters	Actuators		
C	ECU information	Read / Erase Fault	Parameters			
E	ECU information	Read / Erase Fault				

Special functions

Engine	Adaptation values reset	Adaptation of the tank ventilation system	Over rewing Analysis	Idle air control calibration	Exhoaust flap calibration	Balance-pipe flap calibration		
Instrument cluster	Date adjustment	Clock display 12h/24h	Outside temperature display °F/°C	Units of consumption display l/100km; km/l; mpg (GB); mpg (US) miles per galon		Tyre pressure display bar/kPa/psi	Complete configuration (ABS, ESA, ...)	
	Service reminder reset (date/km/miles)	Distance in km/miles						
Global test	Searching and identifying of all embedded control units and reading fault memory Generating a diagnostic report + printing							

Color code

Light Blue	Diagnosis is functional
White	Diagnosis is in development
Gray	Control unit is not occupied on a motorcycle
Yellow	What is new since last update

Abbreviations

ESA	Electronic Suspension Adjustment

Last updated: June 7, 2018

ACTIA®
ACTIA CZ CZECH REPUBLIC

DIAG4® BIKE

Professional diagnostics & tuning tool for workshops and tuning centers

High Voltage Tester

AT111 4025



Reference
CCE: 888129
ACTIA CZ: AT111 4025



High Voltage Tester is a unique tool for checking ignition systems of spark-ignition engines. It is used to measure the performance of ignition module (ignition coils) as well as the flash-over voltage on spark plugs. The test is very simple and fast, and is performed by connecting parts of the tester to the HV cables following the operating instructions. It is carried out directly on the motorcycle (or vehicle) without dismantling the ignition modules or spark plugs.

The kit includes a set of high voltage loads which simulate the spark plug under the conditions of operation with the possibility of setting the high voltage in the range of **2.5 kV to 32.5 kV** in **2.5 kV** increments. In addition, the kit comprises a module simulating the spark gap of the spark plug using LED light. The simulated ignition of the plug can therefore be evaluated optically, without the risk of fire.