

Professional diagnostics & tuning tool for
workshops and tuning centers

Serial diagnostics - SW

HARLEY-DAVIDSON® & BUELL®

Version 24.1

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 10** and **11**. There is also a wireless Bluetooth version of the communication interface available.

Motorcycle diagnostics for model year 2024 and older

● Overview of the Harley-Davidson® models

All models since 1995 (Delphi, Magneti Marelli, VDO IGN, Thunder MAX EFI)

● 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

Limits of measured parameters

New modules LHCM and RHCM (Left/Right) hands control module (parameters, special functions)

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, alarm etc.)

New function "Service Information", links to Owners manual, Wiring Diagrams, Parts catalog

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).



Reference:
CCE: 653747
ZODIAC: 732056
ATAL: AT531 5049

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HARLEY-DAVIDSON® & BUELL®**Version 24.1****● Toolbox** (special functions in one place with description of the functions)

- Speedo module : Parking Brake, Instrument External Indicator Bar, Traction control telltale (two wheels / trike)
Instrument TPMS Option (enable/disable)
- Vehicle speed sensor calibration (VSS)
- Module replacement (TSSM, HFSM, BCM)
- ABS Service (Bleeding and configuration, Delphi + CAN models) up to model year 2024
- 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)
- Chassis Fan Cooler configuration (enable/disable)
- Radio customization (all models including)
RADIO BOOM!™ BOX GTS 2019 - Speaker Configuration, Radio region code, Digital Audio Broadcast, Rear Speaker switch installed, Navigation, TPMS (Tyre Pressure Monitoring System), Audio input 1 2 and 3, CB Radio, CB Frequency, Intercom, WHIM (Wireless Headset Interface Module), Bluetooth, Apple CarPlay Mic Type, Apple Siri, SMS Text Messaging, Front Audio Output, Rear Audio Output
- Custom Audio Flash - J&M Corporation (Audio Flash Stage 5)
- ABS Telltale configuration on CAN models
- Radio pairing, Buell TPS adjustment, Speedo pairing (CAN models)
- Reset AFV (all models and Buell®)
- Oil Cooler Fan (enable/disable)
- TCU module Installed / not Installed (Telematic Control Unit)
- Exchange PTT and Cruise Control on Hand Control modules
- Idle speed adjustment - all models with Delphi Electronic Fuel Injection Module up to 2017.

For models since 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 - External Bank Angle sensor, Auxiliary/Fog light Operation, etc.
Updated Key FOB assignment/replacement, PIN read/change,
disable/enable: Auto arming, Sidecar, Service mode, Lights configuration,
Keyless ignition, BCM customization : Stealth mode "Police"-(enable/disable)
Rider Assistance - ABS, Traction Control configuration
Fork Lock Switch - configuration
TPMS - valve assignment
Front and rear turn signal (LED/Incandescent)
EBAS (External Bank Angle Sensor) - no EBAS / FLHTCUTG / FLRT
Power Lock Switch for Saddle bags and Trunk (disable/enable)

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



Reference:
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ZODIAC: 732049
ATAL: AT531 4028