

Autologic Technical Specifications



MERCEDES BENZ

1. MERCEDES-BENZ PRODUCT DESCRIPTION

The *Autologic* diagnostic tool for Mercedes-Benz vehicles is without doubt the most comprehensive tool to be made available to independent Mercedes Benz specialists. The *Autologic* diagnostic tool for Mercedes-Benz provides access to full dealer-level capabilities that at present covers: W124, W129, W140, W163, W164, W168, W169, W170, W171, W202, W203, W204, W208, W209, W210, W211, W215, W216, W219, W220, W221, W230, W245, W251, W463, W638, W639, and Sprinter light commercial vehicles, with additional upgrade modules to be made available in the near future for 212.

Autologic for Mercedes-Benz is unique in offering full fault code read and re-set, dynamic data, activation of components, clearing and setting of adaptation values, coding and programming of control modules (including SCN), for example;

Programming of new control modules (including Airbag SRS systems) including SCN coding, system controls such as adaptation reset and variant coding, initial startup of new instrument clusters (including odometer advancement), real-time reading of all dynamic data, ASSYST and ASSYST+ Active Service Systems, procedure for the fitting of Mercedes-Benz accessories and D2B/MOST ring components and TV/DVD activation and region coding. ECU programming.

Systems accessed by the tool include:

- All Engines: LH1/LH2, V6, PMS, ME1.0, ME2.0, ME2.1, ME2.7, ME2.8, ME9.7, ECM 1 & 2, ME-SFI (SIM4), EVE, ERE, HFM, CDIs 1-5 and CDiD (CDi6 in progress)
- All Transmissions and selector modules, EAG, EGS, ETC, 7GTronic
- ENR, ADS, AIRmatic and Active Body Control Suspension Systems
- All Traction Systems: ESP/ASR/ETS/ABS/BAS & SBC systems
- Sensotronic brake control (SBC – 211, 219 & 230)
- TPC Tyre Pressure Control
- All EIS systems
- All SRS and airbag systems
- All body network modules e.g. OCP/UCP/LCP/SCM etc.
- Roll-over bar and soft top
- Central gateway and system diagnosis modules including ECU programming
- ASSYST, ASSYST PLUS including ECU programming
- DAS2 (Pre-97) modules for 140, 202, 210 e.g SKF (CCM) and KFB (CF) body controls, IFZ PSE, drive authorisation systems
- D2B and most command modules incorporating all subsidiary modules
- Vito / Sprinter immobiliser (WSP) including key coding
- Drive Authorisation System alignment of new control modules.
- SAM (Signal Acquisition) Modules
- Air Conditioning Systems
- Instrument Cluster
- Parktronic System
- Keyless Go
- TV Tuner activation

- Headlamp Range Adjustment
- Seat Electronics
- Door Control Modules
- RVC, RST & Vario Roof modules
- ACS / FTC / GRM (168 chassis)
- AAM / EAM / DAS / SEM / VG Transfer Case (163 chassis)
- SCN coding for all applicable modules
- ECU programming

Leads & connectors:

- OBD11 connector and 1m cable
- Mercedes 38 pin connector and multiplexor
- 3m extension cable
- USB cable for Internet upgrades

System packaged in a lightweight, rugged flight case

2. DIAGNOSTIC CAPABILITIES

The following table gives a broad idea of the level of coverage. This is by no means represents the full coverage and functionality is constantly being added to the system.

	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
ENGINES :					
ECU version information, dynamic data, fault code read / clear, version coding and interlocking to DAS system. Correction programming of ignition, fuel quantity, idling speed adjustment and electric suction fan temperature offset. Full component activation. Re-setting of sensor and mixture adaptation and first initialisation. Smooth running engine test and electronic compression test.					
PMS / HFM-SFI	Y	Y	Y	Y	Y
LH-SFI	Y	Y	Y	Y	Y
ME-SFI 1.0/2.0/2.1/2.7/2.8	Y	Y	Y	Y	Y
ME-SFI SIM4	Y	Y	Y	Y	Y
ME-SFI 2.7.1	Y	Y	Y	Y	Y
ECM1 / ECM2	Y	Y	Y	Y	Y

	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
ERE / EVE	Y	Y	Y	Y	Y
CDI1 / CDI2 / CDI3	Y	Y	Y	Y	Y
CDI4/CDI5	Y	Y	Y	Y	Y
CDID	Y	Y	Y	Y	Y
ME9.7	Y	Y	Y	Y	Y
TRANSMISSION :					
Read and clear fault codes, ECU version information, dynamic data, component activation, reset adaptation values and ATF condition monitor. 168 chassis transmissions including AKS system: bleed system, teach in gear positions and program byte point determination					
EAG	Y	Y	Y	Y	N/A
EGS	Y	Y	Y	Y	Y
ETC	Y	Y	Y	Y	Y
SEQ (Manual)	Y	Y	Y	Y	Y
FTC	Y	Y	Y	Y	Y
EGS52	Y	Y	Y	Y	Y
EGS53	Y	Y	Y	Y	Y
7GTronic	Y	Y	Y	Y	Y
AKS	Y	Y	Y	Y	Y
VG	Y	Y	Y	N/A	N/A
ELECTRONIC SELECTOR MODULE :					
Read and clear fault codes, ECU version information, dynamic data, component activation and interlocking to DAS system.					
ESM	Y	Y	Y	Y	Y
TRACTION SYSTEMS :					
ECU version information, read and clear fault codes, dynamic data, component activation and control unit adaptations.					
ESP	Y	Y	Y	Y	Y
ASR	Y	Y	Y	Y	Y

	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
ETS	Y	Y	Y	Y	Y
ABS	Y	Y	Y	Y	Y
BAS	Y	Y	Y	Y	Y
VP	Y	Y	Y	Y	Y
BRAKING SYSTEMS :					
ECU version information, read and clear fault codes, dynamic data, component activation, system deactivation and re-activation required for all service procedures including brake pad and / or brake disk replacement (211 & 230 chassis).					
SBC	Y	Y	Y	Y	N/A
SUSPENSION SYSTEMS :					
ECU version information, read and clear fault codes, dynamic data, component activation, fully automated system tests, height level adjustment and manual height calibration for fitting new modules.					
AirMATIC	Y	Y	Y	Y	Y
ABC	Y	Y	Y	Y	Y
ADS	Y	Y	Y	Y	Y
AIRBAG / SRS :					
Read and clear fault codes, ECU version information, dynamic data, control unit adaptations / coding. New ECU parameterization.					
AIRBAG	Y	Y	Y	N/A	Y
ELECTRONIC IGNITION SYSTEM :					
ECU version information, read and clear fault codes, dynamic data, control unit adaptations/ ECU coding, disable key/key track. Key coding and EIS / ESL activation.					
EZS (All Variants)	Y	Y	Y	N/A	Y
BODY MODULES :					
OCP/UCP/LCP/SCM/DCM's/HRA/PSE/CCM/CGW					
ECU version information, read and clear fault codes, dynamic data, component activation and coding of new modules					
OCP	Y	Y	Y	Y	N/A
UCP	Y	Y	Y	Y	N/A

	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
LCP	Y	Y	Y	Y	Y
SCM	Y	Y	Y	Y	N/A
DCM'S	Y	Y	Y	Y	Y
HRA	Y	Y	Y	Y	Y
PSE	Y	Y	Y	Y	Y
SKF / KFB	Y	Y	Y	Y	Y
ZGW Central gateway	Y	Y	N/A	N/A	Y
SDS	Y	Y	Y	Y	Y
BCM	Y	Y	Y	Y	Y
ASSYST	Y	Y	Y	N/A	Y
ASSYST PLUS	Y	Y	Y	N/A	Y
AAM	Y	Y	Y	Y	Y
EAM	Y	Y	Y	Y	Y
SEQ	Y	Y	Y	Y	Y
DAS	Y	Y	Y	Y	Y
ETR	Y	Y	Y	Y	Y
WSS	Y	Y	Y	Y	Y
REVETR-LF	Y	Y	Y	Y	Y
REVETR-RF	Y	Y	Y	Y	Y
AHE	Y	Y	Y	Y	Y
MSS	Y	Y	Y	In development	In development
COU	Y	Y	Y	Y	N/A
INFO AND COMMS					
ECU version information, read and clear fault codes, dynamic data, component activation.					
NSA	Y	Y	Y	Y	N/A
PTS	Y	Y	Y	Y	Y

	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
RFK	Y	Y	Y	Y	Y
SIGNAL ACQUISITION AND ACTIVATION MODULES – SAM :					
ECU version information, read and clear fault codes, dynamic data, component activation.					
SAM	Y	Y	Y	Y	Y
SAM-FL	Y	Y	Y	Y	Y
SAM-FR	Y	Y	Y	Y	Y
SAM-REAR	Y	Y	Y	Y	Y
TIRE PRESSURE MONITOR :					
ECU version information, read and clear fault codes, dynamic data, component activation, module coding, control unit start up.					
TPC	Y	Y	Y	N/A	Y
RVC / RST / VARIO ROOF :					
ECU version information, read and clear fault codes, dynamic data & component activation.					
RVC	Y	Y	Y	Y	N/A
RST	Y	Y	Y	Y	N/A
VARIO ROOF	Y	Y	Y	Y	N/A
INSTRUMENT CLUSTER :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding, coding of key dependent settings, optional equipment installation, ICM specific coding, increase/reset odometer reading, ASSYST / ASSYST + Active Service System administration for oil change/service information storage.					
KIWK2 / KIWFB	Y	Y	Y	Y	Y
KI	Y	Y	Y	Y	Y
KIL	Y	Y	Y	Y	Y
KIWK4 / KIW3	Y	Y	Y	Y	Y
ICM	Y	Y	Y	Y	Y

	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
ALL ACTIVITY MODULE :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding, coding of transmitter key radio code, correction programming, revocably deactivate and activate keys.					
AAM	Y	Y	Y	Y	Y

EXTENDED ACTIVITY MODULE (MY2000) :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding.					
EAM	Y	Y	Y	Y	Y
DAS MODULE (MY2000) :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding, learn replacement key, correction programming, revocably deactivate and activate keys.					
DAS	Y	Y	Y	Y	Y
SEM – SECURITY MODULE (UP TO MY1999) :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding.					
SEM	Y	Y	Y	Y	Y
LCP (163 CHASSIS MY2002 & 168 CHASSIS) :					
ECU version information, read and clear fault codes, dynamic data and component activation.					
LCP	Y	Y	Y	Y	N/A
A-CLASS TRANSMISSIONS (AKS, FTC & GRM) :					
AUTOMATIC CLUTCH SYSTEM (AKS) :					
ECU version information, read and clear fault codes, dynamic data, component activation and new module setup: system bleeding, teaching in gear positions and engagement point determination.					
AKS	Y	Y	Y	Y	Y
FRONT AUTOMATIC TRANSMISSION :					
ECU version information, read and clear fault codes, dynamic data, component activation and ECU coding. Reading and resetting of adaptation data and diagnostic routines.					
FTC	Y	Y	Y	Y	Y

	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
GEAR RECOGNITION MODULE :					
ECU version information, read and clear fault codes, dynamic data and component activation.					
GRM	Y	Y	Y	Y	N/A
RADIO FREQUENCY LOCKING :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding, revocably deactivate and activate keys.					
RFL	Y	Y	Y	Y	Y
ATA :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding.					
ATA	Y	Y	Y	Y	Y
PARKTRONIC :					
ECU version information, read and clear fault codes, dynamic data AND component activation.					
PTS	Y	Y	Y	Y	N/A
COMMAND & AUDIO :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding. Retrofitting of D2B / MOST components. TV activation whilst vehicle is moving at any speed.					
D2BCOMMAND	Y	Y	Y	Y	Y
D2B AUDIO	Y	Y	Y	Y	Y
AGW	Y	Y	Y	Y	Y
CTEL	Y	Y	Y	Y	Y
TUNER	Y	Y	Y	Y	Y
ZAN	Y	Y	Y	Y	N/A
COU	Y	Y	Y	Y	Y
TELEAID	Y	Y	Y	Y	Y
NAVIGATION	Y	Y	Y	Y	Y
MB PORTAL	Y	Y	Y	N/A	Y
SATELLITE RADIO	Y	Y	Y	Y	Y

	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
HANDS FREE SYSTEM	Y	Y	Y	Y	Y
CD CHANGER	Y	Y	Y	Y	Y
TV TUNER :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding and activation whilst driving.					
TV TUNER	Y	Y	Y	Y	Y
AIR CONDITIONING :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding.					
AAC	Y	Y	Y	Y	Y
KLA	Y	Y	Y	Y	Y
TAU	Y	Y	Y	Y	Y
ELECTRIC SEAT ADJUSTMENT :					
ECU version information, read and clear fault codes, dynamic data, component activation, version coding.					
ESA-FL	Y	Y	Y	Y	Y
ESA-FR	Y	Y	Y	Y	Y
ESA-REAR	Y	Y	Y	Y	Y
MULTI CONTOUR SEAT :					
ECU version information, read and clear fault codes, dynamic data, component activation and version coding.					
OSB-FL	Y	Y	Y	Y	Y
OSB-FR	Y	Y	Y	Y	Y
KEYLESS – GO :					
ECU version information, read and clear fault codes, dynamic data, component activation, transmitter card cancelling and re-assignment.					
KG	Y	Y	Y	Y	Y