

Autologic

Total Diagnostics for Mercedes-Benz

Designed by

Autologic Diagnostics Limited





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1. INTRODUCTION

Autologic has been developed by Autologic Diagnostics Ltd to provide specialist BMW, Mercedes-Benz, Jaguar, VAG, Land Rover, Porsche and Volvo workshops with dealer-level diagnostics to enable them to be totally independent of main dealer facilities.

Autologic is designed and manufactured by Autologic Diagnostics Ltd and is contained in a rugged notebook-sized casing, using a 12.1" colour touch screen. Autologic utilises the latest solid-state technology, contains no moving parts and uses no disk or CD media. Access to vehicle systems is via a touch-button interface with an intuitive menu structure. A large number of pages are backed-up by help screens, displaying nominal values and pin configurations and, in relevant sections, a graphing facility is also available.

The system is backed up by a software development programme to keep *Autologic* up-to-date with current vehicles and by telephone/fax/email support staffed by Land Rover, Mercedes-Benz, Volvo, VAG, Porsche and BMW-trained technicians. Vehicle-oriented diagnostic training courses are offered periodically to enable *Autologic* users to keep up with new technology.

Keep in touch with Autologic via our web site www.autologic-diagnostics.com





2. 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, ruggedised flight case



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 informa	tion, dynamic data	a, fault code	read / clear, v	ersion coding and	d
interlocking to DAS s	system. Correction	programmin	g of ignition, fu	el quantity, idling	speed
adjustment and eled	ctric suction fan te	mperature o	ffset. Full comp	onent activation.	Re-setting
of sensor and mixtur	e adaptation and	first initialisat	ion. Smooth run	ning engine test a	and
electronic compress	sion test.				
PMS / HFM-SFI	Υ	Υ	Υ	Υ	Υ
LH-SFI	Υ	Υ	Υ	Υ	Υ
ME-SFI	Υ	Υ	Υ	Υ	Υ
1.0/2.0/2.1/2.7/2.8					
ME-SFI SIM4	Υ	Υ	Υ	Υ	Υ
ME-SFI 2.7.1	Υ	Υ	Υ	Υ	Υ
ECM1 / ECM2	Υ	Υ	Υ	Υ	Υ
ERE / EVE	Υ	Υ	Υ	Υ	Υ
CDI1 / CDI2 / CDI3	Υ	Υ	Υ	Υ	Υ
CDI4/CDI5	Υ	Υ	Υ	Υ	Υ
CDID	Υ	Υ	Υ	Υ	Υ
ME9.7	Υ	Υ	Υ	Υ	Υ
TRANSMISSION :					
Read and clear faul					
reset adaptation va					
system: bleed systen	n, teach in gear po	ositions and p	orogram byte p	oint determinatio	
EAG	Υ	Υ	Υ	Υ	N/A
EGS	Υ	Υ	Υ	Υ	Υ
ETC	Υ	Υ	Υ	Υ	Υ
SEQ (Manual)	Υ	Υ	Υ	Υ	Υ
FTC	Υ	Υ	Υ	Υ	Υ
EGS52	Υ	Υ	Υ	Υ	Υ
EGS53	Υ	Υ	Υ	Υ	Υ
7GTronic	Υ	Υ	Υ	Υ	Υ
AKS	Υ	Υ	Υ	Υ	Υ

	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING			
ELECTRONIC SELECTO								
Read and clear fault		on informatio	n, dynamic dat	a, component ac	ctivation			
and interlocking to DAS system.								
and interlocking to D								



TRACTION SYSTEM	1S :				
ECU version inforr	mation, read a	ind clear fault co	odes, dynami	c data, compone	ent activation
and control unit a	adaptations.			·	
ESP	Υ	Υ	Υ	Υ	Υ
ASR	Υ	Υ	Υ	Υ	Υ
ETS	Υ	Υ	Υ	Υ	Υ
ABS	Υ	Υ	Υ	Υ	Υ
BAS	Υ	Υ	Υ	Υ	Υ
VP	Υ	Υ	Υ	Υ	Υ
ECU version inform system deactivat and / or brake dis	nation, read a ion and re-act	tivation required	for all service		
SBC	Тү	Y	Y	Υ	N/A
ECU version informated somew modules.					
AirMATIC	Υ	Υ	Υ	Υ	Υ
ABC	Υ	Υ	Υ	Υ	Υ
ADS	Υ	Υ	Υ	Υ	Υ
AIRBAG / SRS : Read and clear for coding. New ECU			ation, dynam	ic data, control u	nit adaptations /
AIRBAG	Υ	Υ	Υ	N/A	Υ
ELECTRONIC IGNI ECU version inforr ECU coding, disa	mation, read a				nit adaptations/
EZS (All Variants)	Υ	Υ	Υ	N/A	Υ



	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
BODY MODULES :					
OCP/UCP/LCP/SCM/I	CM/c/HDA/DSE/C	CM/CGW			
ECU version information			es dynamic da	ta component a	ctivation
and coding of new m		ai rauit cou	cs, dynamic da	ta, component at	Cilvation
OCP	γ	Υ	Υ	Υ	N/A
UCP	Y	Y	Y	Y	N/A
LCP	Y	Y	Y	Y	Y
SCM	Y	Y	Y	Y	N/A
DCM'S	Υ	Y	Y	Y	Y
HRA	Υ	Υ	Υ	Υ	Υ
PSE	Y	Y	Y	Y	Ϋ́
SKF / KFB	Υ	Υ	Y	Υ	Ϋ́
ZGW Central gateway	Υ	Υ	N/A	N/A	Υ
SDS	Υ	Υ	Υ	Υ	Υ
BCM	Y	Y	Y	Y	Y
ASSYST	Υ	Υ	Y	N/A	Y
ASSYST PLUS	Υ	Υ	Υ	N/A	Υ
AAM	Υ	Υ	Υ	Υ	Υ
EAM	Y	Y	Y	Y	Y
SEQ	Υ	Υ	Y	Υ	Ϋ́
DAS	Υ	Y	Y	Y	Y
ETR	Υ	Y	Y	Y	Y
WSS	Υ	Y	Y	Y	Y
REVETR-LF	Y	Y	Y	Y	Y
REVETR-RF	Υ	Υ	Y	Υ	Ϋ́
AHE	Υ	Υ	Υ	Υ	Υ
MSS	Υ	Υ	Υ	In development	In development
COU	Y	Y	Y	Υ	N/A
INFO AND COMMS ECU version informati NSA	on, read and clea	ar fault cod	es, dynamic da	ta, component ac	ctivation.
PTS	Y	Y	Y	Υ	Y
RFK	Y	Y	Y	Y	Y
SIGNAL ACQUISITION ECU version informati	AND ACTIVATION	N MODULES	- SAM :	•	
SAM	Υ	Υ	Υ	Υ	Υ
SAM-FL	Υ	Υ	Υ	Υ	Υ
SAM-FR	Υ	Υ	Υ	Υ	Υ
SAM-REAR	Υ	Υ	Υ	Υ	Υ
TIRE PRESSURE MONITO ECU version informati module coding, cont	on, read and clea	ar fault cod	es, dynamic da	ta, component a	ctivation,
TPC	γ	Υ	Υ	N/A	Υ
IFC	ı	ľ	ľ	IN/A	Υ



	ECU VERSION INFORMATION	FAULT READ &	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
		CLEAR			
RVC / RST / VARIO	ROOF:				
ECU version inform	nation, read and clea	ar fault code:	s, dynamic data	a & component a	activation.
RVC	Υ	Υ	Υ	Υ	N/A
RST	Υ	Υ	Υ	Υ	N/A
VARIO ROOF	Υ	Υ	Υ	Υ	N/A
<u> </u>	reset odometer reac oil change/service ir v	_		e service system	У
KI KI	Y	Y	Y	Y	Y
KIL	Y	Y	Y	Y	Y
KIWK4 / KIW3	Y	Y	Y	Y	Y
ICM	Υ	Y	Y	Y	Y
		<u> </u>	1 -	1 .	1 .
ALL ACTIVITY MOD	ULE :				
	tion, read and clear fau	ult codes, dyna	amic data, comp	onent activation, v	ersion coding
	r key radio code, corre				
A A B A	V		V	V	1 1/

AAM



	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
EXTENDED ACTIVITY	MODULE (MY2000)		1		<u> </u>
ECU version informat			s, dvnamic dat	a, component ad	ctivation.
version coding.	,		., . ,	.,	,
EAM	Υ	Υ	Υ	Υ	Υ
	•	•	•	•	•
DAS MODULE (MY200 ECU version informat version coding, learr activate keys.	ion, read and clea				
DAS	Υ	Υ	Υ	Υ	Υ
version coding. SEM LCP (163 CHASSIS MY			Υ	Υ	Υ
ECU version informat	ion, read and clea	ar fault code:	s, dynamic dat	a and componer	nt
	1	1	T	T	T
LCP A-CLASS TRANSMISSI AUTOMATIC CLUTCH	SYSTEM (AKS) :		Y	Y	N/A
A-CLASS TRANSMISSI AUTOMATIC CLUTCH ECU version informat and new module set	ONS (AKS, FTC & C SYSTEM (AKS): ion, read and clea	GRM) : ar fault code:	s, dynamic dat	a, component ac	ctivation
A-CLASS TRANSMISSI AUTOMATIC CLUTCH ECU version informat and new module set determination.	ONS (AKS, FTC & C SYSTEM (AKS): ion, read and clea	GRM) : ar fault code:	s, dynamic dat	a, component ac	ctivation
A-CLASS TRANSMISSI AUTOMATIC CLUTCH ECU version informat and new module set determination. AKS FRONT AUTOMATIC T ECU version informat and ECU coding. Re	ONS (AKS, FTC & C SYSTEM (AKS): ion, read and clea cup: system bleedi Y RANSMISSION: ion, read and clea	ar fault code: ng, teaching Y ar fault code:	s, dynamic dat in gear positio Y s, dynamic dat	a, component acns and engagem Y a, component ac	ctivation ent point Y
activation. LCP A-CLASS TRANSMISSI AUTOMATIC CLUTCH ECU version informat and new module set determination. AKS FRONT AUTOMATIC T ECU version informat and ECU coding. Re FTC GEAR RECOGNITION ECU version informat activation.	ONS (AKS, FTC & C SYSTEM (AKS): ion, read and clea up: system bleedi Y RANSMISSION: ion, read and clea ading and resettin Y MODULE:	ar fault code: Y ar fault code: Y ar fault code: g of adapta:	s, dynamic dat in gear positio Y s, dynamic dat tion data and d	a, component ac ns and engagem Y a, component ac diagnostic routine Y	ctivation ent point Y ctivation es. Y
A-CLASS TRANSMISSI AUTOMATIC CLUTCH ECU version informat and new module set determination. AKS FRONT AUTOMATIC T ECU version informat and ECU coding. Re FTC GEAR RECOGNITION ECU version informat	ONS (AKS, FTC & C SYSTEM (AKS): ion, read and clea up: system bleedi Y RANSMISSION: ion, read and clea ading and resettin Y MODULE:	ar fault code: Y ar fault code: Y ar fault code: g of adapta:	s, dynamic dat in gear positio Y s, dynamic dat tion data and d	a, component ac ns and engagem Y a, component ac diagnostic routine Y	ctivation ent point Y ctivation es. Y



	ECU VERSION INFORMATION	FAULT READ & CLEAR	DYNAMIC DATA	COMPONENT ACTIVATION	FULL ECU CODING
COMMAND & AUD	IO :	0227 111			I .
	ation, read and cle	ar fault cod	es, dvnamic da	ta, component a	ctivation.
	trofitting of D2B / M				
any speed.	9				3
D2BCOMMAND	Υ	Υ	Υ	Υ	Υ
D2B AUDIO	Υ	Υ	Υ	Υ	Υ
AGW	Υ	Υ	Υ	Υ	Υ
CTEL	Υ	Υ	Υ	Υ	Υ
TUNER	Υ	Υ	Υ	Υ	Υ
ZAN	Υ	Υ	Υ	Υ	N/A
COU	Υ	Υ	Υ	Υ	Υ
TELEAID	Υ	Υ	Υ	Υ	Υ
NAVIGATION	Υ	Υ	Y	Υ	Y
MB PORTAL	Y	Y	Y	N/A	Y
SATELLITE RADIO	Y	Y	Y	Υ	Y
HANDS FREE	Y	Y	Y	Y	Y
SYSTEM		'	'	'	'
CD CHANGER	Υ	Υ	Υ	Υ	Y
OD OH WINGER		<u> </u>		<u>'</u>	<u> </u>
AIR CONDITIONIIN	G :				
ECU version inform version coding.	ation, read and cle	ar fault cod	es, dynamic da	ta, component a	ctivation,
AAC	Υ	Υ	Υ	Υ	Υ
KLA	Υ	Υ	Υ	Υ	Υ
TAU	Υ	Υ	Υ	Υ	Υ
	I	-	I	- I	
	USTMENT: ation, read and cle	ar fault cod	es, dynamic da	ta, component a	ctivation,
version coding.	l v	LV	Lv	l v	Ly
ESA-FL	Y	Υ	Y	Y	Y
ESA-FR	Υ	Y	Y	Y	Υ
ESA-REAR	Υ	Υ	Υ	Υ	Υ
MULTI CONTOUR SE ECU version inform and version coding	ation, read and cle	ar fault cod	es, dynamic da	ta, component a	ctivation
OSB-FL	Υ	Υ	Υ	Υ	Υ
OSB-FR	Υ	Υ	Υ	Υ	Υ
	•		•		
	ation, read and cle		es, dynamic da	ta, component a	ctivation,
KG	γ and re-ass	ү	Υ	Т	Тү
NO.				_ <u> </u>	

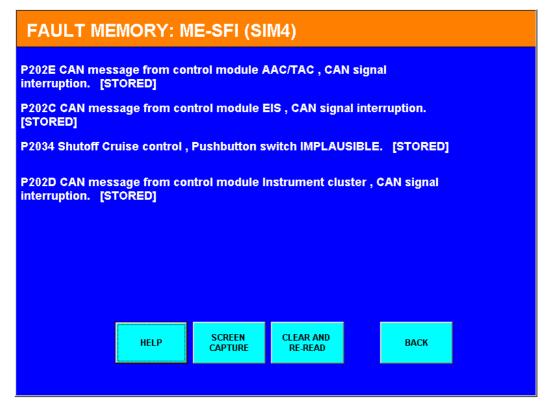


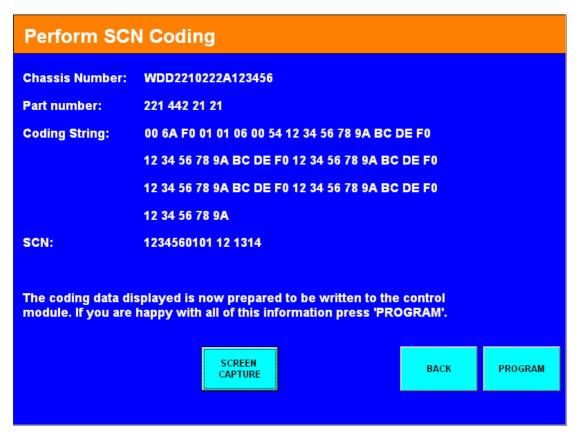
3.1 EXAMPLE SCREEN SHOTS

SELECT CLASS								
	A - CLASS	C - CLASS	CL - CLASS	CLK - CLASS				
	E - CLASS	S - CLASS	SL - CLASS	SLK - CLASS				
	HELP	SCREEN CAPTURE		<back< th=""><th></th></back<>				

Fault Counter							
Engine speed (rpm)		1027.00					
Engine load (%)					47.84		
Fault counter cylind	er 1				0.00		
Fault counter cylind	er 2				0.00		
Fault counter cylind	er 3			0.00			
Fault counter cylind	er 4				0.00		
	HELP	SCREEN CAPTURE	GRAPH		ВАСК		









5. PRODUCT UPGRADE PROGRAMME

Autologic Diagnostics Ltd is committed to a constant programme of development to provide additional upgrades for all marques covered by *Autologic*.

Forthcoming *Autologic* Mercedes upgrades are as follows:

MERCEDES-BENZ

W212.

Future upgrades will be downloaded to users via our Internet site.

Keep in touch with updates by accessing the USER LOG-IN menu on our web site at

www.autologic-diagnostics.com

6. SYSTEM SUPPORT

Support is implemented via telephone, email and the *Autologic* website. When making a call you should have the following information available:

- Software version number
- Vehicle type and VIN number
- System e.g. EIS, ME2.8, etc.
- Function e.g. Read fault, dynamic information etc.
- Description of problem

Most technical calls should be resolved simply on the telephone. Should there be a software system fault, this will normally be resolved within 24 hours and a revised version can be downloaded from our web site to your *Autologic*.