

CONTENT AND ACCESSORIES

Includes:



BER-H3900 • CONNECTORS & CABLES

	Suitcase	BER-V0001				
	BMW	BER-H3010	MB 3	BER-H3070	PSA 30	BER-H3101
	DAEWOO	BER-H3020	MB 14	BER-H3071	RENAULT	BER-H3110
	FIAT	BER-H3030	MB 38	BER-H3072	ROVER	BER-H3120
	HONDA 3	BER-H3040	OBDII_MB	BER-H3073	SUBARU	BER-H3130
	HONDA 5	BER-H3041	NISSAN	BER-H3150	VAG	BER-H3140
	HYUNDAI/ MITSUBISHI	BER-H3050	OPEL	BER-H3090	Lighter Adapter Cable	BER-H3003
	KIA	BER-H3060	PSA 2	BER-H3100	Battery Adapter Cable	BER-H3004

OBD_CHECK SAFER DIAGNOSTICS

- ✓ Battery check 12/ 24 V
- ✓ Verification of communication pins
- ✓ Diagnostic Bus activity
- ✓ Breakout Box
- ✓ Compatible with all diagnosis tools

Always connect it before starting the diagnosis

*Recommended Optional complement. Not included.



BERTON - Can Negoci, 27 - 08310 - ARGENTONA - BARCELONA - ESPAÑA -
Tel: +34 937 418 850 Fax: +34 933 806 620 - Web: www.berton.es / E-mail: berton@berton.es



 MERCEDES-BENZ A 176 176.008 - A 200 CDI Sedan 						
POWERTRAIN	Fuel pump	Drivetrain	Motor electronics	Transmission control	DIRECT SELECT interface	All-wheel drive
CHASSIS	Electric parking brake	Electronic stability program	Electrical power steering	DRIVER ASSISTANCE SYSTEM	COLLISION PREVENTION ASSIST	Backup camera
Multifunction camera	DISTRONIC	Partronic	Outer right rear intelligent radar sensor system	Outer left rear intelligent radar sensor system	Tire pressure monitor	BODY
Electronic ignition lock	Headlamps	Trailer recognition	KEYLESS-GO	Front signal acquisition and actuation module	Steering column module	Right front reversible emergency tensioning retractor
Left front reversible emergency tensioning retractor	Interior motion sensor	Supplemental restraint system	Panoramic sliding sunroof	Multifunction control unit	INFORMATION AND COMMUNICATION	Audio or COMAND
Instrument cluster	Digital Audio Broadcasting	Audio/COMAND display	Drive kit for iPhone®	Communication module Telematics services	Navigation module	Satellite digital audio radio
Sound system	Audio/COMAND operating unit	SEATS AND DOORS	Right front door	Left front door	Electric seat adjustment Front passenger	Electric seat adjustment Driver
AIR CONDITIONING	Air conditioning	Stationary heater	LIN BUS	Dimming inside rearview mirror	Alarm siren	

DIAGNOSTICS IN AUTOMOTIVE ELECTRONIC SYSTEMS

PROFESSIONAL DIAGNOSTICS

The image displays a comprehensive automotive diagnostic system interface. It includes several key components:

- Vehicle Identification:** A screen showing a grid of car logos and models for selection.
- Faults:** A screen displaying a list of error codes and their descriptions.
- Parameters:** A screen showing a grid of car models and their specifications.
- Report:** A screen displaying a table of diagnostic data, including vehicle identification, fault codes, and parameter values.
- Engine Bay View:** A large, detailed screenshot of a car's engine bay, with various components labeled with numbers and letters, corresponding to the data shown in the other screens.



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DEMO

Mercedes-Benz

POWERTRAIN

Motor Electronics

CRD3 -CRD3_Diag_2139h

A

176

176.008 - A 200 CDI Sedan




ID	DESCRIPTION	
1	MB object number for hardware	651 901 11 02
2	MB object number for software	651 904 08 00
3	MB object number for software	651 902 32 02
4	MB object number for software	651 903 27 40
5	Diagnosis identifier	022140
6	Hardware version	14/08 01
7	Software version	12/19 01
8	Software version	15/07 01
9	Software version	15/26 01
10	Manufacturer-specific serial number	36 30 33 33

IDENTIFICATION

SAVE

FAULT COUNT: 2		
	DESCRIPTION	TYPE
P0113-15	Intake air temperature sensor 1 (cylinder bank 1) has a short circuit to positive.	STORED
P0103-37	Mass air flow sensor 1 has a short circuit to positive.	CURRENT

P0103-37: Intake air temperature sensor 1 (cylinder bank 1) has a short circuit to positive.				
ID	DESCRIPTION	VALUE 1	VALUE 2	UNIT
1	Exhaust gas recirculation rate (actual value)	-0.39	-0.42	%
2	B17 / 8 (Sensor thermal air intercooling)	-0.59	-0.32	°C
3	Airmass	635.29	636.00	mg/str
4	Atmospheric pressure	1.01	1.00	bar
5	B5 / 1 (boost pressure sensor)	0.98	0.96	bar
6	B11 / 4 (Coolant temperature sensor)	19.61	27.25	°C
7	Engine speed	0.00	0.00	rpm
8	peripheral temperature	19.00	27.10	°C
9	Oil level	70.00	68.00	mm
10	Oil quality	5.98	5.97	-
11	B1 (oil temperature sensor)	18.82	27.50	°C
12	Accelerator pedal position	0.00	0.00	%
13	Vehicle speed	0.00	0.00	km/h
14	Battery voltage (raw value)	11.92	12.07	V
15	Pass exhaust gas recirculation	0.00	0.00	gr/s
16	total torque (as calculated)	-0.00	-0.00	Nm
17	Air mass (raw value)	0.00	0.00	gr/s
18	Oil temperature (raw value)	818.40	824.30	ADcnt

ID	DESCRIPTION
1	M4/7 (Combustion engine and air conditioning with integrated control fan motor)
2	M13/7 (Transmission oil cooling coolant circulation pump)
3	M16/6 (Throttle valve actuator)
4	M55 (Intake port shutoff actuator motor)
5	N14/3 (Glow output stage)
6	Y77/1 (Boost pressure regulator)
7	Y85 (Exhaust gas recirculation cooler bypass switchover valve)
8	Y130 (Engine oil pump valve)
9	Y131 (Oil spray nozzles shutoff valve)
10	Y133 (Coolant pump switchover valve)
11	Y76 (Fuel injectors)

ID	DESCRIPTION
1	Regeneration of the diesel particulate filter while driving
2	Injector injection quantity adjustment
3	Teach in of throttle valve stop
4	Teach-in of intake port shutoff
5	Teach-in of diesel particulate filter after replacement of control unit
6	Reset of lambda values
7	Resetting of contamination level of air filter
8	Teach in component 'Y77/1 (Boost pressure regulator)'
9	Quick teach-in of values of zero quantity calibration
10	Replace component 'Diesel particulate filter'



ID	DESCRIPTION	VALUE	UNIT
1	Battery voltage	13.49	V
2	Engine speed	769.50	1/min
3	B4 / 6 (rail pressure sensor)	282.00	bar
4	Smooth operation of the cylinder 1	-1.00	1/min
5	Smooth operation of the cylinder 3	1.50	1/min
6	Smooth operation of the cylinder 4	-0.60	1/min
7	Smooth operation of the cylinder 2	1.60	1/min
8	B2 / 5b1 (Intake air temperature sensor)	44.50	°C
9	B11 / 4 (Coolant temperature sensor)	67.50	°C
10	Atmospheric pressure	1.00	bar
11	B5 / 1 (Boost pressure sensor)	1.00	bar
12	B37 (Accelerator pedal sensor)	0.00	%
13	B60 (Exhaust back pressure sensor)	1.08	bar
14	B17 / 8 (Charge air temperature sensor)	30.25	°C
15	B28 / 8 (Diesel particulate filter differential pressure sensor)	0.00	bar
16	Air mass	230.00	mg/Hub
17	B28 / 5 (Pressure sensor downstream of air filter)	0.99	bar
18	M16 / 6 (Throttle valve actuator)	54.90	%