



OPEN ROAD of BRIDGEWATER

1250 Route 22
BRIDGEWATER, NJ 08807
908-685-0800
www.openroad.com



Mercedes-Benz

Mercedes-Benz

Kilaseck

CUSTOMER NO. 436	ADVISOR TED GASPARI	TAG NO. 336 7884	INVOICE DATE 02/24/11	INVOICE NO. MBCS23991	
OPEN ROAD BMW OF ROXBURY 840 STATE ROUTE 46 KENVIL, NJ 07847	LABOR RATE	LICENSE NO.	MILEAGE 49,996	COLOR /	
	YEAR / MAKE / MODEL 07/MERCEDES-BENZ/CLS-CLASS/4DR SDN A			DELIVERY DATE	DELIVERY MILES
	VEHICLE I.D. NO. W D D D J 7 7 X 6 7 A 0 8 5 2 8 4			SELLING DEALER NO.	PRODUCTION DATE
	P.T.E. NO. 0		P.O. NO.	R.O. DATE 02/17/11	
RESIDENCE PHONE	BUSINESS PHONE 1-800-246-2697	COMMENTS			

MO: 49999

LABOR & PARTS-----
J# 1 01MBZ ENGINE, CYLINDER HEAD TECH(S):322 INTERNAL
 CUSTOMER STATES ENGINE VIBRATION
 MOUNTS NOT NEEDED AT THIS TIME

Service Hours

Monday - Friday
7:30 am - 7:00 pm

 Saturday
8:00 am - 2:00 pm

PARTS-----QTY---FP-NUMBER-----DESCRIPTION-----LIST PRICE-UNIT PRICE-
 JOB # 1 TOTAL PARTS 0.00
 JOB # 1 TOTAL LABOR & PARTS 0.00

J# 2 02MBZ SERVICE INFORMATION TECH(S):322 300.00
 CUSTOMER STATES IDLE AT PARK TOO HIGH
 FOUND MINOR VACUUM LEAK AT HOSE FOR CRANKCASE VENTILATION,
 R&R SERPANTINE BELT, RADIATOR FAN WITH CONTROL MODULE, IDLER
 PULLEY, P/S PUMP RESOVOIR AND REPLACE VACUUM HOSE, ERASE
 CODES AND ROAD TEST

Our goal is to provide
"EXCELLENT"
service.

PARTS-----QTY---FP-NUMBER-----DESCRIPTION-----LIST PRICE-UNIT PRICE-
 JOB # 2 1 156-018-03-82 HOSE 13.50 8.80 8.80
 JOB # 2 TOTAL PARTS 8.80
 JOB # 2 TOTAL LABOR & PARTS 308.80

Thank you for
your business.

J# 3 27MBZ AUTO TRANSMISSION TECH(S):322
 CUSTOMER STATES HARSH DOWNSHIFT
 WENT FOR 5 MILE DRIVE NO HARSH SHIFT FELT, MUST OF BEEN RELA
 TED TO ENGINE RUNNING BAD

PARTS-----QTY---FP-NUMBER-----DESCRIPTION-----LIST PRICE-UNIT PRICE-
 JOB # 3 TOTAL PARTS 0.00
 JOB # 3 TOTAL LABOR & PARTS 0.00

J# 4 03MBZ CRANKSHAFT, PISTONS TECH(S):322 WARRANTY
 CUSTOMER STATES CHECK ENGINE LIGHT ON
 GOODWILL JOE B
 SDS FOR CODES, CODE P0304, 307,303,305 MISFIRES, FOLLOW GIED
 ED TEST, CHECK FUEL PRESSURE, OK 4.1 BAR. CHECK FUEL DELIVER
 Y, OK AT 1 LITER IN 50 SECONDS, CHECK FUEL FOR CONTAMINATION
 OK. CHECKED FOR VACUME LEAKS AND FOUND LEAK AT INTAKE MANIFO
 LD GASKET, R&R INTAKE MANIFOLD AND REPLACE GASKETS, WHILE MA
 NIFOLD REMOVED DUCT TAPE ALL PORTS AND USED SMOKE MACHINE TO
 MAKE SURE NO STRESS CRACKS IN MANIFOLD, MANIFOLD OK. AFTER
 REINSTALLING INTAKE MANIFOLD ERASE CODES.
 NON TIME PERFORM FUEL PRESSURE TEST AND FUEL DELIVERY TEST

Parked in Spot # _____

OPEN ROAD QUALITY CONTROL INSPECTION

PARTS-----QTY---FP-NUMBER-----DESCRIPTION-----LIST PRICE-UNIT PRICE-
 JOB # 4 2 156-141-04-80 METAL SEAL WARRANTY
 JOB # 4 2 Q-1-03-0002 ANTI-FREEEZE WARRANTY
 JOB # 4 TOTAL PARTS 0.00
 JOB # 4 TOTAL LABOR & PARTS 0.00

Inspected By _____ Date _____

Cust. Called For Del. By _____

Time _____ Date _____



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CUSTOMER NO. 436		ADVISOR TED GASPARI	TAG NO. 336 7884	INVOICE DATE 02/24/11	INVOICE NO. MBCS23991
OPEN ROAD BMW OF ROXBURY 840 STATE ROUTE 46 KENVIL, NJ 07847		LABOR RATE	LICENSE NO.	MILEAGE 49,996	COLOR /
		YEAR / MAKE / MODEL 07/MERCEDES-BENZ/CLS-CLASS/4DR SDN A		DELIVERY DATE	DELIVERY MILES
		VEHICLE I.D. NO. W D D D J 7 7 X 6 7 A 0 8 5 2 8 4		SELLING DEALER NO.	PRODUCTION DATE
RESIDENCE PHONE		BUSINESS PHONE 1-800-246-2697		F.T.E. NO. 0	R.O. NO. 02/17/11
		COMMENTS		MO: 49999	

TOTALS.....	TOTAL - MISC	9.26

* [] CASH [] CHECK CK NO. []	TOTAL LABOR....	300.00
* [] VISA [] MASTERCARD [] DISCOVER	TOTAL PARTS....	8.80
* [] AMER XPRESS [] OTHER [] CHARGE	TOTAL SUBLET...	0.00
	TOTAL G.O.G....	0.00
	TOTAL MISC CHG.	9.26
	TOTAL MISC DISC	0.00
	TOTAL TAX.....	0.00
	TOTAL INVOICE \$	318.06

THANK YOU FOR YOUR BUSINESS!!

CLIENT SIGNATURE _____

Service Hours

Monday - Friday
7:30 am - 7:00 pm

Saturday
8:00 am - 2:00 pm

Our goal is to provide
"EXCELLENT"
service.

Thank you for
your business.

Parked in Spot # _____

**OPEN ROAD
QUALITY CONTROL
INSPECTION**

Inspected By _____ Date _____

Cust. Called
For Del. By _____

Time _____ Date _____

The Reynolds and Reynolds Company, EMVANTHRE, C/SB4155, Q (05/10)

Initial quick test log

Model series/Model designation 219.377 **Workshop ID** [Werkstattdata]

Total distance driven 50198 miles **Version** 6.5.3/07/2010
(2010-05-17)

Battery voltage 11.77 V

Specified-actual configuration of interior CAN bus

MB number	HW version	SW version	Diagnosis version	Pin
				0

CGW - Central gateway

MB number	HW version	SW version	Diagnosis version	Pin
2110407240	18.2000	03.2000	1/3	101
FW number		FW number (data)	FW number (boot SW)	
2114480527		2104470151		
2114490027		2104470324		

EZS - Electronic ignition switch / KG - Keyless Go (Special equipment)

MB number	HW version	SW version	Diagnosis version	Pin
2110407240	07.2000	00.2000	1/0	101
Code	Text			Status
9016	Keyless Go fault : No feedback received from left side door module NOTE : This fault can be ignored and deleted on vehicle type without Keyless Go.			STORED

ME 9.7 (AMG) - Motor electronics 9.7 (AMG)

MB number	HW version	SW version	Diagnosis version	Pin
204423740	47.00	00.40	1010	101
FW number		FW number (data)	FW number (boot SW)	
003409040		0034071140		
Code	Text			Status
0007	Fuel pressure is too low. (P0107)			STORED
2001	The mixture in the right cylinder bank is too lean when idling. (P2180)			Current and stored
0b32	Misfiring (P0300)			STORED
0010	Misfiring of cylinder 1. Worsening of exhaust emission values after engine start (P0305)			STORED
0011	Misfiring of cylinder 4. Worsening of exhaust emission values after engine start (P0304)			STORED
0006	Misfiring of cylinder 3. Worsening of exhaust emission values after engine start (P0303)			STORED
0004	Misfiring of cylinder 2. Worsening of exhaust emission values after engine start (P0302)			STORED
2005	The mixture in the left cylinder bank is too lean when idling. (P2181)			Current and stored

FSCU Right - Control unit 'Right fuel pump'

MB number	HW version	SW version	Diagnosis version	Pin
204423740	00.40	00.00	1/0	101
FW number		FW number (data)	FW number (boot SW)	
000000000				

FSCU Left - Control unit 'Left fuel pump'

MB number 0365435332	HW version 05.42	SW version 06.08	Diagnosis version 1/1	Pin 101
FW number 0004420571		FW number (data)	FW number (boot SW)	

ETC - Electronic transmission control

MB number 0335457332	HW version 09.2004	SW version 49.2005	Diagnosis version 1/1	Pin 101
Serial number 2202701506	FW number 0004488910	FW number (data)	FW number (boot SW)	

ESM - Electronic selector module

MB number 2115454532	HW version 35.2004	SW version 17.2004	Diagnosis version 1/17	Pin 101
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ABR - Adaptive Brake

MB number 0365457332	HW version 05.45	SW version 06.05	Diagnosis version 0/2	Pin 101
FW number 2114421402 2114421502		FW number (data)	FW number (boot SW)	

Code 4FE7	Text Check component Y10 (SPS solenoid valve)	Status STORED
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Event 7284	Text Check codings in control module N93 (Central gateway control unit)	Status Event STORED
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AiRmatic

MB number 0375451232	HW version 26.2004	SW version 11.2006	Diagnosis version 5/11	Pin 101
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TPC - Tire pressure monitor

MB number 0036200526	HW version 04.26	SW version 05.26	Diagnosis version 0/4	Pin 101
FW number 1644420237		FW number (data)	FW number (boot SW)	

AB - Airbag

MB number 2118702626	HW version 01.2004	SW version 21.2004	Diagnosis version 4/5	Pin 101
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WSS - Weight sensing system

MB number 2118706026	HW version 05.23	SW version 05.19	Diagnosis version 2/2	Pin 101
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Dr-side SAM - Driver signal acquisition and actuation module

MB number 2115456301	HW version 28.2005	SW version 44.2005	Diagnosis version 0/4	Pin 101
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Pass-side SAM - Passenger-side signal acquisition and actuation module

MB number	HW version	SW version	Diagnosis version	Pin
2115455332	05.2005	49.2005	0/4	101
REAR SAM - Rear signal acquisition and actuation module				
2115455301	13.2006	04.2006	5/132	101
HRA - Headlamp range adjustment				
2118703126	23.2003	50.2004	130/1	101
OCP - Overhead control panel				
2198201301	45.2005	45.2005	0/3	101
UCP - Upper control panel				
2118218858	20.2004	18.2004	0/14	101
LCP - Lower control panel				
2118217158	40.2006	28.2003	0/12	101
RevETR-LF - Left front reversible emergency tensioning retractor				
2118271345	06.07	06.01	0/4	101
FW number 2114420269		FW number (data)	FW number (boot SW)	
RevETR-RF - Right front reversible emergency tensioning retractor				
2118271445	06.07	06.01	0/4	101
FW number 2114420269		FW number (data)	FW number (boot SW)	
System diagnosis				
2115407245	18.2005	03.2005	1/4	101
IC - Instrument cluster				
2195403211	17.2006	16.2006	16/12	101
ASSYST Active Service System				
2115407245	18.2005	03.2005	1/4	101
FW number 2114480424		FW number (data) 2194470324	FW number (boot SW)	
ASSYST PLUS - PLUS Active Service System				

MB number	HW version	SW version	Diagnosis version	Pin
2115407245	18.2005	03.2005	1/4	101
FW number 2114480124		FW number (data) 2194470324	FW number (boot SW)	

SCM [MRM] - Steering column module

MB number	HW version	SW version	Diagnosis version	Pin
1715450532	01.2006	27.2005	0/2	101

AGW - Audio gateway (MOST network management, diagnosis gateway, radio tuner)

MB number	HW version	SW version	Diagnosis version	Pin
211827259	86.2021	18.2027	98/8	101
		Serial number BE900661103474		

COMAND or AUDIO

MB number	HW version	SW version	Diagnosis version	Pin
2118203497	45.2005	08.2006	9/65	101
		Serial number BE704061163120		

NAVI - Navigation

MB number	HW version	SW version	Diagnosis version	Pin
2118705226	16.2005	42.2005	1/194	101
		Serial number service not supported		

CDC - CD changer

MB number	HW version	SW version	Diagnosis version	Pin
2118706189	36.2005	36.2005	1/67	101

CTEL - Mobile phone adapter with universal interface

MB number	HW version	SW version	Diagnosis version	Pin
2308207026	41.2004	31.2005	5/65	101
		Serial number DM60037157		

SDAR - Satellite radio

MB number	HW version	SW version	Diagnosis version	Pin
1698270162	13.2005	11.2005	1/66	101

Control unit TELE AID

MB number	HW version	SW version	Diagnosis version	Pin
2214460259	05.46	05.25	2/71	101
Serial number NI00134539	FW number 2214420759	FW number (data) 2214422460 2214422360	FW number (boot SW)	

TELE AID - Telematic service Emergency call

MB number	HW version	SW version	Diagnosis version	Pin

2034470059 05.46 05.25 2/64 101

TELE AID - Telematic services MD Info , Roadside assistance , OAS, vehicle tele diagnosis (ECU)

MB number	HW version	SW version	Diagnosis version	Pin
2034470259	05.46	05.25	2/64	101

TELE AID - Telematic service Stolen vehicle tracking

MB number	HW version	SW version	Diagnosis version	Pin
2034470150	05.46	05.25	2/64	101

TELE AID - Telematic services Remote door unlocking , Remote door locking

MB number	HW version	SW version	Diagnosis version	Pin
2214470059	05.46	05.25	2/65	101

DCM-FL - Door control module front left

MB number	HW version	SW version	Diagnosis version	Pin
2198200626	05.2004	40.2004	1/0	101

DCM-FR - Door control module front right

MB number	HW version	SW version	Diagnosis version	Pin
2198200726	05.2004	40.2004	1/0	101

Code	Text	Status
9205	The output of component M21/2r1 (Mirror heater) has Short circuit to ground.	STORED

DCM-RR - Door control module rear right

MB number	HW version	SW version	Diagnosis version	Pin
2198200326	43.2004	20.2004	1/0	101

DCM-RL - Door control module rear left

MB number	HW version	SW version	Diagnosis version	Pin
2198200226	43.2004	20.2004	1/0	101

ESA driver - Electric seat adjustment driver (with memory)

MB number	HW version	SW version	Diagnosis version	Pin
2118704926	04.34	04.48	0/2	101
FW number 2118704926		FW number (data)	FW number (boot SW)	

ESA passenger - Electric seat adjustment front passenger (with memory)

MB number	HW version	SW version	Diagnosis version	Pin
2118705026	04.34	04.48	0/2	101

HS - Seat heater

MB number	HW version	SW version	Diagnosis version	Pin
2118702026	26.2004	11.2004	5/9	101

AAC - Automatic air conditioning

MB number	HW version	SW version	Diagnosis version	Pin

VIN	WDDDJ77X67A085284	Model	219.377
Order number		series/model designation	
		License plate	

Fault codes

Control unit: ME97AMG

Code	Text	Status
3697	Fuel pressure is too low. (P0191)	STORED

Name	Current values (first/last)	Unit
Fault frequency	1	
Kilometer reading	80466.0 80466.0	km
Vehicle power supply voltage	10.55 10.55	V
Vehicle speed	0.0 0.0	km/h
Engine speed	211 220	1/min
Engine load	55.469 53.516	%
Engine temperature	75.0 75.0	°C
Air mass	88.672 86.328	%
Air mass flow	9.180 24.984	kg/h
Temperature of intake air	44.0 44.0	°C
Ambient air temperature	13.0 13.0	°C
Ignition angle at cylinder 1	8.00 8.00	°KW
Lambda control, before TWC right	1.000 1.000	
Lambda control, before TWC left	1.000 1.000	
Lambda set value	1.000001 1.000001	
Additive mixture correction, right	3.656 3.656	%
Additive mixture correction, left	3.094 3.094	%
Right multiplicative adaptation correction	1.156 1.156	
Left multiplicative adaptation correction	1.141 1.141	
Camshaft position 'Exhaust' Right	-14.00 -14.00	°KW
Camshaft position 'Exhaust' Left	-16.00 -16.00	°KW
Camshaft position 'Intake' Right	28.00 28.00	°KW
Camshaft position 'Intake' Left	28.00 27.00	°KW
Intake manifold pressure	950 920	hPa
Status 'Secondary air system'	4.0 4.0	
Position of tank vent valve	0.000 0.000	%
Fuel tank level	0.000 0.000	%
Fuel tank pressure difference	0.313 0.313	hPa
Ambient pressure	990 990	hPa
Position 1 Throttle valve	22.353 14.510	%
Position 2 Throttle valve	21.961 14.510	%
Time since engine start	0.0 0.0	s
Operating time	87966.0 87966.0	min
Driving distance since fault memory was erased	29.0 29.0	km
Driving distance with Check Engine indicator lamp ON	0.0 0.0	km
Throttle valve actual position	10.196 2.353	%
Accelerator pedal value 1 (Raw value)	63.922 46.275	%
Actual gear	0 0	
Engine specified torque	1585.965 460.044	Nm
Torque request (Specified value)	0.000 0.000	Nm
Fuel mass (Right cylinder bank)	74.1563 72.4219	%
Fuel mass (Left bank of cylinders)	72.5156 70.8281	%
Lambda actual value (Right cylinder bank)	1.0000 1.0000	
Lambda actual value (Left bank of cylinders)	1.0000 1.0000	
Voltage Oxygen sensor (Right cylinder bank)	0.452 0.452	V
Voltage Oxygen sensor (Left bank of cylinders)	0.452 0.452	V
Warm-up phases since fault memory erased	2 2	

Fuel pressure	14.688 14.688	
Fuel pressure (Specified value)	45.313 45.313	kPa
Air mass (Right cylinder bank)	0.000 0.000	kPa
Air mass (Left bank of cylinders)	0.000 0.000	kg/h
Oil temperature	69.0 69.0	kg/h
		°C

0633

Misfiring of cylinder 1 : Damages TWC (P0301)

Current and
stored

Name	Current values (first/last)	Unit
Fault frequency	1	
Kilometer reading	80766.0 80766.0	km
Vehicle power supply voltage	14.04 14.04	V
Vehicle speed	0.0 0.0	km/h
Engine speed	810 810	1/min
Engine load	5.078 5.078	%
Engine temperature	82.0 82.0	°C
Air mass	17.578 17.578	%
Air mass flow	19.080 19.080	kg/h
Temperature of intake air	66.0 66.0	°C
Ambient air temperature	22.0 22.0	°C
Ignition angle at cylinder 1	1.50 1.50	°KW
Lambda control, before TWC right	1.250 1.250	
Lambda control, before TWC left	1.250 1.250	
Lambda set value	0.899903 0.899903	
Additive mixture correction, right	6.000 6.000	%
Additive mixture correction, left	6.000 6.000	%
Right multiplicative adaptation correction	1.188 1.188	
Left multiplicative adaptation correction	1.156 1.156	
Camshaft position 'Exhaust' Right	-15.00 -15.00	°KW
Camshaft position 'Exhaust' Left	-15.00 -15.00	°KW
Camshaft position 'Intake' Right	27.00 27.00	°KW
Camshaft position 'Intake' Left	28.00 28.00	°KW
Intake manifold pressure	510 510	hPa
Status 'Secondary air system'	4.0 4.0	
Position of tank vent valve	0.781 0.781	%
Fuel tank level	36.078 36.078	%
Fuel tank pressure difference	0.000 0.000	hPa
Ambient pressure	1000 1000	hPa
Position 1 Throttle valve	12.941 12.941	%
Position 2 Throttle valve	12.941 12.941	%
Time since engine start	54.0 54.0	s
Operating time	88332.0 88332.0	min
Driving distance since fault memory was erased	330.0 330.0	km
Driving distance with Check Engine indicator lamp ON	210.0 210.0	km
Throttle valve actual position	0.784 0.784	%
Accelerator pedal value 1 (Raw value)	6.667 6.667	%
Actual gear	0 0	
Engine specified torque	2400.168 4087.892	Nm
Torque request (Specified value)	0.000 0.000	Nm
Fuel mass (Right cylinder bank)	22.5000 22.5000	%
Fuel mass (Left bank of cylinders)	21.9375 21.9375	%
Lambda actual value (Right cylinder bank)	1.4063 1.4063	
Lambda actual value (Left bank of cylinders)	1.2656 1.2656	
Voltage Oxygen sensor (Right cylinder bank)	0.452 0.452	V
Voltage Oxygen sensor (Left bank of cylinders)	0.452 0.452	V
Warm-up phases since fault memory erased	9 9	
Fuel pressure	40.625 40.625	kPa
Fuel pressure (Specified value)	40.938 40.938	kPa
Air mass (Right cylinder bank)	0.000 0.000	kg/h
Air mass (Left bank of cylinders)	0.000 0.000	kg/h
Oil temperature	88.5 88.5	°C

2091

The mixture in the right cylinder bank is too lean when idling.
(P2187)Current and
stored

Name	Current values (first/last)	Unit
Fault frequency	1	
Kilometer reading	80526.0 80616.0	km
Vehicle power supply voltage	14.04 14.14	V
Vehicle speed	0.0 0.0	km/h
Engine speed	842 907	1/min
Engine load	2.344 2.344	%
Engine temperature	89.0 94.0	°C
Air mass	14.844 14.844	%
Air mass flow	22.680 24.192	kg/h
Temperature of intake air	18.0 20.0	°C
Ambient air temperature	3.0 -2.0	°C
Ignition angle at cylinder 1	3.50 3.50	°KW
Lambda control, before TWC right	1.250 1.250	
Lambda control, before TWC left	1.250 1.250	
Lambda set value	1.000001 1.000001	
Additive mixture correction, right	6.000 6.000	%
Additive mixture correction, left	6.000 6.000	%
Right multiplicative adaptation correction	1.133 1.102	
Left multiplicative adaptation correction	1.109 1.078	
Camshaft position 'Exhaust' Right	-16.00 -16.00	°KW
Camshaft position 'Exhaust' Left	-16.00 -15.00	°KW
Camshaft position 'Intake' Right	28.00 27.00	°KW
Camshaft position 'Intake' Left	27.00 27.00	°KW
Intake manifold pressure	410 390	hPa
Status 'Secondary air system'	4.0 4.0	
Position of tank vent valve	0.000 0.000	%
Fuel tank level	13.725 71.373	%
Fuel tank pressure difference	0.313 0.000	hPa
Ambient pressure	990 980	hPa
Position 1 Throttle valve	12.941 12.941	%
Position 2 Throttle valve	12.941 12.941	%
Time since engine start	1986.0 1006.0	s
Operating time	88008.0 88164.0	min
Driving distance since fault memory was erased	92.0 181.0	km
Driving distance with Check Engine indicator lamp ON	0.0 61.0	km
Throttle valve actual position	0.784 0.784	%
Accelerator pedal value 1 (Raw value)	6.275 6.667	%
Actual gear	2 2	
Engine specified torque	1759.981 4059.640	Nm
Torque request (Specified value)	0.000 0.000	Nm
Fuel mass (Right cylinder bank)	22.4531 20.9531	%
Fuel mass (Left bank of cylinders)	21.9844 20.5781	%
Lambda actual value (Right cylinder bank)	1.0781 1.0938	
Lambda actual value (Left bank of cylinders)	1.0625 1.0625	
Voltage Oxygen sensor (Right cylinder bank)	0.050 0.050	V
Voltage Oxygen sensor (Left bank of cylinders)	0.061 0.066	V
Warm-up phases since fault memory erased	3 4	
Fuel pressure	40.000 40.000	kPa
Fuel pressure (Specified value)	39.375 39.688	kPa
Air mass (Right cylinder bank)	0.000 0.000	kg/h
Air mass (Left bank of cylinders)	0.000 0.000	kg/h
Oil temperature	98.3 100.5	°C

0629

Misfiring (P0300)

Current and
stored

Name	Current values (first/last)	Unit
Fault frequency	2	
Kilometer reading	80766.0 80766.0	km
Vehicle power supply voltage	13.57 13.57	V

Vehicle speed	0.0	0.0	km/h
Engine speed	582	582	1/min
Engine load	8.984	8.984	%
Engine temperature	82.0	82.0	°C
Air mass	19.922	19.922	%
Air mass flow	21.780	21.780	kg/h
Temperature of intake air	66.0	66.0	°C
Ambient air temperature	22.0	22.0	°C
Ignition angle at cylinder 1	17.00	17.00	°KW
Lambda control, before TWC right	1.000	1.000	
Lambda control, before TWC left	1.000	1.000	
Lambda set value	0.899903	0.899903	
Additive mixture correction, right	6.000	6.000	%
Additive mixture correction, left	6.000	6.000	%
Right multiplicative adaptation correction	1.188	1.188	
Left multiplicative adaptation correction	1.156	1.156	
Camshaft position 'Exhaust' Right	-14.00	-14.00	°KW
Camshaft position 'Exhaust' Left	-15.00	-15.00	°KW
Camshaft position 'Intake' Right	27.00	27.00	°KW
Camshaft position 'Intake' Left	27.00	27.00	°KW
Intake manifold pressure	560	560	hPa
Status 'Secondary air system'	4.0	4.0	
Position of tank vent valve	1.172	1.172	%
Fuel tank level	36.078	36.078	%
Fuel tank pressure difference	0.000	0.000	hPa
Ambient pressure	1000	1000	hPa
Position 1 Throttle valve	13.333	13.333	%
Position 2 Throttle valve	13.333	13.333	%
Time since engine start	53.0	53.0	s
Operating time	88332.0	88332.0	min
Driving distance since fault memory was erased	330.0	330.0	km
Driving distance with Check Engine indicator lamp ON	210.0	210.0	km
Throttle valve actual position	1.176	1.176	%
Accelerator pedal value 1 (Raw value)	6.667	6.667	%
Actual gear	0	0	
Engine specified torque	2384.229	9.001	Nm
Torque request (Specified value)	0.000	0.000	Nm
Fuel mass (Right cylinder bank)	26.8125	26.8125	%
Fuel mass (Left bank of cylinders)	26.1563	26.1563	%
Lambda actual value (Right cylinder bank)	1.6719	1.6719	
Lambda actual value (Left bank of cylinders)	1.6094	1.6094	
Voltage Oxygen sensor (Right cylinder bank)	0.447	0.447	V
Voltage Oxygen sensor (Left bank of cylinders)	0.447	0.447	V
Warm-up phases since fault memory erased	9	9	
Fuel pressure	40.938	40.938	kPa
Fuel pressure (Specified value)	40.938	40.938	kPa
Air mass (Right cylinder bank)	0.000	0.000	kg/h
Air mass (Left bank of cylinders)	0.000	0.000	kg/h
Oil temperature	88.5	88.5	°C

0637

Misfiring of cylinder 5 : Damages TWC (P0305)

Current and stored

Name	Current values (first/last)	Unit
Fault frequency	2	
Kilometer reading	80766.0 80766.0	km
Vehicle power supply voltage	14.04 14.04	V
Vehicle speed	0.0 0.0	km/h
Engine speed	810 810	1/min
Engine load	5.078 5.078	%
Engine temperature	82.0 82.0	°C
Air mass	17.578 17.578	%
Air mass flow	19.080 19.080	kg/h
Temperature of intake air	66.0 66.0	°C
Ambient air temperature	22.0 22.0	°C

Ignition angle at cylinder 1	1.50 1.50		°KW
Lambda control, before TWC right	1.250 1.250		
Lambda control, before TWC left	1.250 1.250		
Lambda set value	0.899903 0.899903		
Additive mixture correction, right	6.000 6.000		%
Additive mixture correction, left	6.000 6.000		%
Right multiplicative adaptation correction	1.188 1.188		%
Left multiplicative adaptation correction	1.156 1.156		
Camshaft position 'Exhaust' Right	-15.00 -15.00		°KW
Camshaft position 'Exhaust' Left	-15.00 -15.00		°KW
Camshaft position 'Intake' Right	27.00 27.00		°KW
Camshaft position 'Intake' Left	28.00 28.00		°KW
Intake manifold pressure	510 510		hPa
Status 'Secondary air system'	4.0 4.0		
Position of tank vent valve	0.781 0.781		%
Fuel tank level	36.078 36.078		%
Fuel tank pressure difference	0.000 0.000		hPa
Ambient pressure	1000 1000		hPa
Position 1 Throttle valve	12.941 12.941		%
Position 2 Throttle valve	12.941 12.941		%
Time since engine start	54.0 54.0		s
Operating time	88332.0 88332.0		min
Driving distance since fault memory was erased	330.0 330.0		km
Driving distance with Check Engine indicator lamp ON	210.0 210.0		km
Throttle valve actual position	0.784 0.784		%
Accelerator pedal value 1 (Raw value)	6.667 6.667		%
Actual gear	0 0		
Engine specified torque	2400.168 4087.892		Nm
Torque request (Specified value)	0.000 0.000		Nm
Fuel mass (Right cylinder bank)	22.5000 22.5000		%
Fuel mass (Left bank of cylinders)	21.9375 21.9375		%
Lambda actual value (Right cylinder bank)	1.4063 1.4063		
Lambda actual value (Left bank of cylinders)	1.2656 1.2656		
Voltage Oxygen sensor (Right cylinder bank)	0.452 0.452		V
Voltage Oxygen sensor (Left bank of cylinders)	0.452 0.452		V
Warm-up phases since fault memory erased	9 9		
Fuel pressure	40.625 40.625		kPa
Fuel pressure (Specified value)	40.938 40.938		kPa
Air mass (Right cylinder bank)	0.000 0.000		kg/h
Air mass (Left bank of cylinders)	0.000 0.000		kg/h
Oil temperature	88.5 88.5		°C

0641

Misfiring of cylinder 4 : Damages TWC (P0304)

Current and stored

Name	Current values (first/last)	Unit
Fault frequency	2	
Kilometer reading	80766.0 80766.0	km
Vehicle power supply voltage	14.04 14.04	V
Vehicle speed	0.0 0.0	km/h
Engine speed	810 810	1/min
Engine load	5.078 5.078	%
Engine temperature	82.0 82.0	°C
Air mass	17.578 17.578	%
Air mass flow	19.080 19.080	kg/h
Temperature of intake air	66.0 66.0	°C
Ambient air temperature	22.0 22.0	°C
Ignition angle at cylinder 1	1.50 1.50	°KW
Lambda control, before TWC right	1.250 1.250	
Lambda control, before TWC left	1.250 1.250	
Lambda set value	0.899903 0.899903	
Additive mixture correction, right	6.000 6.000	%
Additive mixture correction, left	6.000 6.000	%
Right multiplicative adaptation correction	1.188 1.188	
Left multiplicative adaptation correction	1.156 1.156	

Camshaft position 'Exhaust' Right	-15.00 -15.00	°KW
Camshaft position 'Exhaust' Left	-15.00 -15.00	°KW
Camshaft position 'Intake' Right	27.00 27.00	°KW
Camshaft position 'Intake' Left	28.00 28.00	°KW
Intake manifold pressure	510 510	hPa
Status 'Secondary air system'	4.0 4.0	
Position of tank vent valve	0.781 0.781	%
Fuel tank level	36.078 36.078	%
Fuel tank pressure difference	0.000 0.000	hPa
Ambient pressure	1000 1000	hPa
Position 1 Throttle valve	12.941 12.941	%
Position 2 Throttle valve	12.941 12.941	%
Time since engine start	54.0 54.0	s
Operating time	88332.0 88332.0	min
Driving distance since fault memory was erased	330.0 330.0	km
Driving distance with Check Engine indicator lamp ON	210.0 210.0	km
Throttle valve actual position	0.784 0.784	%
Accelerator pedal value 1 (Raw value)	6.667 6.667	%
Actual gear	0 0	
Engine specified torque	2400.168 4087.892	Nm
Torque request (Specified value)	0.000 0.000	Nm
Fuel mass (Right cylinder bank)	22.5000 22.5000	%
Fuel mass (Left bank of cylinders)	21.9375 21.9375	%
Lambda actual value (Right cylinder bank)	1.4063 1.4063	
Lambda actual value (Left bank of cylinders)	1.2656 1.2656	
Voltage Oxygen sensor (Right cylinder bank)	0.452 0.452	V
Voltage Oxygen sensor (Left bank of cylinders)	0.452 0.452	V
Warm-up phases since fault memory erased	9 9	
Fuel pressure	40.625 40.625	kPa
Fuel pressure (Specified value)	40.938 40.938	kPa
Air mass (Right cylinder bank)	0.000 0.000	kg/h
Air mass (Left bank of cylinders)	0.000 0.000	kg/h
Oil temperature	88.5 88.5	°C

0656

Misfiring of cylinder 3 : Worsening of exhaust emission values
after engine start (P0303)

STORED

Name	Current values (first/last)	Unit
Fault frequency	1	
Kilometer reading	80460.0 80460.0	km
Vehicle power supply voltage	13.85 13.85	V
Vehicle speed	0.0 0.0	km/h
Engine speed	576 576	1/min
Engine load	8.984 8.984	%
Engine temperature	27.0 27.0	°C
Air mass	19.141 19.141	%
Air mass flow	21.168 21.168	kg/h
Temperature of intake air	19.0 19.0	°C
Ambient air temperature	16.0 16.0	°C
Ignition angle at cylinder 1	26.00 26.00	°KW
Lambda control, before TWC right	1.000 1.000	
Lambda control, before TWC left	1.000 1.000	
Lambda set value	1.000001 1.000001	
Additive mixture correction, right	2.906 2.906	%
Additive mixture correction, left	2.344 2.344	%
Right multiplicative adaptation correction	1.148 1.148	
Left multiplicative adaptation correction	1.133 1.133	
Camshaft position 'Exhaust' Right	-15.00 -15.00	°KW
Camshaft position 'Exhaust' Left	-16.00 -16.00	°KW
Camshaft position 'Intake' Right	28.00 28.00	°KW
Camshaft position 'Intake' Left	28.00 28.00	°KW
Intake manifold pressure	420 420	hPa
Status 'Secondary air system'	4.0 4.0	
Position of tank vent valve	0.000 0.000	%
Fuel tank level	1.176 1.176	%

Fuel tank pressure difference	0.313 0.313	
Ambient pressure	990 990	hPa
Position 1 Throttle valve	12.941 12.941	%
Position 2 Throttle valve	12.549 12.549	%
Time since engine start	92.0 92.0	s
Operating time	87942.0 87942.0	min
Driving distance since fault memory was erased	25.0 25.0	km
Driving distance with Check Engine indicator lamp ON	0.0 0.0	km
Throttle valve actual position	0.784 0.784	%
Accelerator pedal value 1 (Raw value)	6.667 6.667	%
Actual gear	0 0	
Engine specified torque	1584.089 4094.705	Nm
Torque request (Specified value)	0.000 0.000	Nm
Fuel mass (Right cylinder bank)	21.0938 21.0938	%
Fuel mass (Left bank of cylinders)	20.0625 20.0625	%
Lambda actual value (Right cylinder bank)	1.0000 1.0000	
Lambda actual value (Left bank of cylinders)	1.0000 1.0000	
Voltage Oxygen sensor (Right cylinder bank)	0.452 0.452	V
Voltage Oxygen sensor (Left bank of cylinders)	0.452 0.452	V
Warm-up phases since fault memory erased	0 0	
Fuel pressure	39.063 39.063	kPa
Fuel pressure (Specified value)	39.063 39.063	kPa
Air mass (Right cylinder bank)	0.000 0.000	kg/h
Air mass (Left bank of cylinders)	0.000 0.000	kg/h
Oil temperature	21.0 21.0	°C

0660

Misfiring of cylinder 7 : Worsening of exhaust emission values after engine start (P0307)

STORED

Name	Current values (first/last)	Unit
Fault frequency	1	
Kilometer reading	80460.0 80460.0	km
Vehicle power supply voltage	13.85 13.85	V
Vehicle speed	0.0 0.0	km/h
Engine speed	576 576	1/min
Engine load	8.984 8.984	%
Engine temperature	27.0 27.0	°C
Air mass	19.141 19.141	%
Air mass flow	21.168 21.168	kg/h
Temperature of intake air	19.0 19.0	°C
Ambient air temperature	16.0 16.0	°C
Ignition angle at cylinder 1	26.00 26.00	°KW
Lambda control, before TWC right	1.000 1.000	
Lambda control, before TWC left	1.000 1.000	
Lambda set value	1.000001 1.000001	
Additive mixture correction, right	2.906 2.906	%
Additive mixture correction, left	2.344 2.344	%
Right multiplicative adaptation correction	1.148 1.148	
Left multiplicative adaptation correction	1.133 1.133	
Camshaft position 'Exhaust' Right	-15.00 -15.00	°KW
Camshaft position 'Exhaust' Left	-16.00 -16.00	°KW
Camshaft position 'Intake' Right	28.00 28.00	°KW
Camshaft position 'Intake' Left	28.00 28.00	°KW
Intake manifold pressure	420 420	hPa
Status 'Secondary air system'	4.0 4.0	
Position of tank vent valve	0.000 0.000	%
Fuel tank level	1.176 1.176	%
Fuel tank pressure difference	0.313 0.313	hPa
Ambient pressure	990 990	hPa
Position 1 Throttle valve	12.941 12.941	%
Position 2 Throttle valve	12.549 12.549	%
Time since engine start	92.0 92.0	s
Operating time	87942.0 87942.0	min
Driving distance since fault memory was erased	25.0 25.0	km

Driving distance with Check Engine indicator lamp ON	0.0 0.0	km
Throttle valve actual position	0.784 0.784	%
Accelerator pedal value 1 (Raw value)	6.667 6.667	%
Actual gear	0 0	
Engine specified torque	1584.089 4094.705	Nm
Torque request (Specified value)	0.000 0.000	Nm
Fuel mass (Right cylinder bank)	21.0938 21.0938	%
Fuel mass (Left bank of cylinders)	20.0625 20.0625	%
Lambda actual value (Right cylinder bank)	1.0000 1.0000	
Lambda actual value (Left bank of cylinders)	1.0000 1.0000	
Voltage Oxygen sensor (Right cylinder bank)	0.452 0.452	V
Voltage Oxygen sensor (Left bank of cylinders)	0.452 0.452	V
Warm-up phases since fault memory erased	0 0	
Fuel pressure	39.063 39.063	kPa
Fuel pressure (Specified value)	39.063 39.063	kPa
Air mass (Right cylinder bank)	0.000 0.000	kg/h
Air mass (Left bank of cylinders)	0.000 0.000	kg/h
Oil temperature	21.0 21.0	°C

2095

The mixture in the left cylinder bank is too lean when idling.
(P2189)



Current and
stored

Name	Current values (first/last)	Unit
Fault frequency	1	
Kilometer reading	80556.0 80616.0	km
Vehicle power supply voltage	13.95 14.14	V
Vehicle speed	0.0 0.0	km/h
Engine speed	927 907	1/min
Engine load	2.344 2.344	%
Engine temperature	93.0 94.0	°C
Air mass	14.844 14.844	%
Air mass flow	24.372 24.192	kg/h
Temperature of intake air	22.0 20.0	°C
Ambient air temperature	-1.0 -2.0	°C
Ignition angle at cylinder 1	3.50 3.50	°KW
Lambda control, before TWC right	1.250 1.250	
Lambda control, before TWC left	1.250 1.250	
Lambda set value	1.000001 1.000001	
Additive mixture correction, right	6.000 6.000	%
Additive mixture correction, left	6.000 6.000	%
Right multiplicative adaptation correction	1.172 1.102	
Left multiplicative adaptation correction	1.141 1.078	
Camshaft position 'Exhaust' Right	-16.00 -16.00	°KW
Camshaft position 'Exhaust' Left	-15.00 -15.00	°KW
Camshaft position 'Intake' Right	27.00 27.00	°KW
Camshaft position 'Intake' Left	27.00 27.00	°KW
Intake manifold pressure	400 390	hPa
Status 'Secondary air system'	4.0 4.0	
Position of tank vent valve	0.000 0.000	%
Fuel tank level	95.294 71.373	%
Fuel tank pressure difference	2.188 0.000	hPa
Ambient pressure	990 980	hPa
Position 1 Throttle valve	12.941 12.941	%
Position 2 Throttle valve	12.941 12.941	%
Time since engine start	2285.0 1006.0	s
Operating time	88068.0 88164.0	min
Driving distance since fault memory was erased	120.0 181.0	km
Driving distance with Check Engine indicator lamp ON	0.0 61.0	km
Throttle valve actual position	0.784 0.784	%
Accelerator pedal value 1 (Raw value)	6.667 6.667	%
Actual gear	2 2	
Engine specified torque	1839.989 4059.640	Nm
Torque request (Specified value)	0.000 0.000	Nm
Fuel mass (Right cylinder bank)	22.1250 20.9531	%

Fuel mass (Left bank of cylinders)	21.5625	20.5781	%
Lambda actual value (Right cylinder bank)	1.0781	1.0938	
Lambda actual value (Left bank of cylinders)	1.0469	1.0625	
Voltage Oxygen sensor (Right cylinder bank)	0.050	0.050	V
Voltage Oxygen sensor (Left bank of cylinders)	0.134	0.066	V
Warm-up phases since fault memory erased	3	4	
Fuel pressure	40.313	40.000	kPa
Fuel pressure (Specified value)	40.000	39.688	kPa
Air mass (Right cylinder bank)	0.000	0.000	kg/h
Air mass (Left bank of cylinders)	0.000	0.000	kg/h
Oil temperature	99.8	100.5	°C

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