

CUSTOMER #: 8551622

PAID

JUL 12 2011

223806

INVOICE

PAGE 1

BETTEN IMPORTS
4907 20th St. S.
Grand Rapids, MI 49508
616-944-4400 FAX 616-944-4401
www.bettenimports.com

SERVICE ADVISOR:

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN/ OUT	TAG	
BLACK	06	MERCEDES C280	WDBRF92J56F779433		71957/71957	T466V	
DEL DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
23JUN08 DD			17:00 08JUL11		105.00	CASH	12JUL11
R.O. OPENED	READY	OPTIONS: STK:P15831 DLR:403068					
14:28 06JUL11	15:13 12JUL11						

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
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A CHECK CUSTOMER STATES POOR RUN/ENGINE SHAKES. TRANSMISSION DOES NOT SHIFT PROPERLY AT TIMES ALSO. SHIFTS ARE DELAYED AND VERY FIRM. ADVISE

200 ENGINE REPAIR

7 STAPERT, PHIL LIC#: M235414

CMB 1.00

105.00

105.00

PARTS: 0.00 LABOR: 105.00 OTHER: 0.00 TOTAL LINE A: 105.00

71957 Road-tested. Felt a harsh shift once. Engine seemed to run OK. Scanned. Found codes for idle mixture at the limit and tendency to run rich at idle. Codes had only one occurrence. Checked actual values for lambda system. Found normal cycling of O2 sensor signals. Checked for software updates in engine and transmission. Found no newer software for transmission, but found newer software for engine. Updated engine software. Road-tested again. Shifting and idle were normal. Rechecked for codes. Rechecked adaptation values. Everthing looks good at this time.

B** CHECK CLICK TYPE NOISE AT TIMES WHEN MAKING SHARP TURNS AT LOW SPEEDS.

700 FRAME, SPRINGS, SHOCKS AND WHEELS

7 STAPERT, PHIL LIC#: M235414

CMB 0.00

0.00

0.00

PARTS: 0.00 LABOR: 0.00 OTHER: 0.00 TOTAL LINE B: 0.00

71957 Road-tested. Could not confirm then noise at this time.

BETTEN IMPORTS Thanks You for Your Business!
We enjoy serving you and always strive to far exceed your expectations. If there is any way we have not done so, please let us know. We want you to be VERY SATISIFED. Thank you & have an EXCELLENT day. Andrew, Brad, Jim, Marty, Sherri M., Sherri S. and Wendy.

ORIGINAL ESTIMATE			
PARTS	LABOR	TOTAL	F.R. HOURS
AUTHORIZED ADDITIONS			
PARTS	LABOR	TOTAL	F.R. HOURS
TALKED TO	DATE	TIME	BY
CUST. VER. NO.			

I hereby authorize the repair work herein set forth to be done along with the necessary material and agree that you are not responsible for loss or damage to vehicle or articles left in vehicle in case of fire, theft or any other cause beyond your control or for any delays caused by unavailability of parts or delays in parts shipments by the supplier or transporter. I hereby grant you and/or your employees permission to operate the vehicle herein described on streets, highways or elsewhere for the purpose of testing and/or inspection. An express garagekeeper's lien is hereby acknowledged on above vehicle to secure the amount of repairs thereto.

DESCRIPTION	TOTALS
LABOR AMOUNT	105.00
PARTS AMOUNT	0.00
GAS, OIL, LUBE	0.00
SUBLET AMOUNT	0.00
MISC. CHARGES	0.00
TOTAL CHARGES	105.00
LESS ADJUSTMENTS	0.00
SALES TAX	0.00
PLEASE PAY THIS AMOUNT	105.00
STATE REG. NO.	

ALL REPAIRS AND PARTS LISTED WERE FURNISHED IN COMPLIANCE WITH THE MICHIGAN AUTO REPAIR ACT P.A.300

CUSTOMER ACKNOWLEDGEMENT

I ACKNOWLEDGE AND APPROVE WARRANTY WORK PERFORMED.

SERVICE REPAIRS CHECKED AND APPROVED BY

AUTHORIZED REPRESENTATIVE

AUTHORIZED PERSON PICKING UP VEHICLE

ALL PARTS INSTALLED ARE NEW UNLESS OTHERWISE SPECIFIED

CUSTOMER COPY

Thank You!

F-108289

Initial quick test log

Model series/Model designation	203.092	Workshop ID	[Werkstattdata]
VIN	WDBRF92J56F779433	Steering	LEFT
Total distance driven	71975 miles	Version	6.7.0/03/2011 (2011-02-10)

Battery voltage 11.83 V

EZS - Electronic ignition switch				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2095451908	27.2004	27.2004	0/8	101

ME 9.7 - Motor electronics 9.7				- F -
MB number	HW version	SW version	Diagnosis version	Pin
0024467340	00.00	06.11	8/16	101
FW number		FW number (data)		FW number (boot SW)
0054481240		0034477140		
Code	Text			Status
0746	Self-adaptation of mixture formation for enleanment at idle for the right cylinder bank is below the permissible limit. (P0172)			Current and stored
0750	Self-adaptation of mixture formation for enleanment at idle for the left cylinder bank is below the permissible limit. (P0175)			Current and stored
2092	The mixture in the right cylinder bank is too rich when idling.			Current and stored
2096	The mixture in the left cylinder bank is too rich when idling.			Current and stored

ETC - Electronic transmission control				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
0355454032	03.2001	10.2005	2/82	101
FW number		FW number (data)		FW number (boot SW)
0355454032				

ESM - Electronic selector module				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2095453432	35.2004	17.2004	1/17	101

ESP - Electronic stability program				- F -
MB number	HW version	SW version	Diagnosis version	Pin
2035454832	23.2003	06.2004	1/7	101
Code	Text			Status
C1185	A7/7b1 (BAS diaphragm travel sensor) : Electrical fault			Current and stored

AB - Airbag				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2038207385	04.2004	23.2004	4/5	101

WSS - Weight sensing system				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2038203885	05.27	05.23	1/2	101

SAM-F - Signal acquisition and actuation module front				- f -
MB number	HW version	SW version	Diagnosis version	Pin

2095452001	45.2004	44.2004	0/22	101
Code	Text			Status
B1010	Component E1e2 (Left low beam) is faulty or the line to the component has a short circuit or open circuit.			STORED
B1009	Component E2e2 (Right low beam) is faulty or the line to the component has a short circuit or open circuit.			STORED

REAR SAM - Rear signal acquisition and actuation module				- f -
MB number	HW version	SW version	Diagnosis version	Pin
2035453801	40.2004	08.2004	3/17	101
Code	Text			Status
B1085	Component B4/1 (Fuel gauge sensor, left half of tank) or line to component has short circuit or open circuit.			STORED
B10A0	Component B4/2 (Fuel gauge sensor, right half of tank) or line to component has short circuit or open circuit.			STORED
B1060	The cable to component B33 (ATA inclination sensor) is faulty.			STORED
B1059	Fault in communication with component B33 (ATA inclination sensor) or there is a cable fault.			STORED

OCP - Overhead control panel				- f -
MB number	HW version	SW version	Diagnosis version	Pin
2038205401	32.2004	44.2004	7/4	101
Code	Text			Status
B1066	Roof system is not normalized.			STORED

UCP - Upper control panel				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2038701510	30.2004	51.2003	1/5	101

ICM - Instrument cluster with maintenance interval display				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2035409147	47.2004	46.2004	17/3	101

SCM [MRM] - Steering column module				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2035406645	10.2005	50.2003	1/0	101

COMAND or AUDIO				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2038705189	35.2005	35.2005	13/70	101
Serial number AL253151004469				

CDC - CD changer				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2038703389	50.2004	05.2005	2/66	101

SOUND - Sound system				- f -
MB number	HW version	SW version	Diagnosis version	Pin
1698208189	25.2005	25.2005	5/193	101
Serial number				

1001971		
Code	Text -	Status
D811	Component Fan is faulty or the lead has open circuit.	STORED

DCM-FL - Door control module front left				- f -
MB number	HW version	SW version	Diagnosis version	Pin
2038201585	46.2002	14.2004	0/0	101
Code	Text			Status
B1501	S20/1s1 (Left front power window switch) : The component is hung or has a short circuit.			STORED

DCM-FR - Door control module front right				- f -
MB number	HW version	SW version	Diagnosis version	Pin
2038201485	46.2002	14.2004	0/0	101
Code	Text			Status
B120B	E6/6 (Right exterior mirror turn signal lamp) : Open circuit or bulb faulty			STORED

DCM-RL - Door control module rear left				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2038202185	50.2003	17.2004	0/0	101

DCM-RR - Door control module rear right				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2038202285	50.2003	17.2004	0/0	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		FW number (data)	FW number (boot SW)	
2118704926				

C-AAC - Convenience automatic air conditioning / AAC - Automatic air conditioning / HEAT - Automatic heater				- ✓ -
MB number	HW version	SW version	Diagnosis version	Pin
2038303785	02.2005	15.2005	2/6	101

VIN	WDBRF92J56F779433	Model series/model designation	203.092
Order number		License plate	

Fault codes

Control unit: ME97

Code	Text	Status
0746	Self-adaptation of mixture formation for enleanment at idle for the right cylinder bank is below the permissible limit. (P0172)	Current and stored

Name	Current values (first/last)	Unit
Frequency counter	1	
Kilometer reading	15516.0 15516.0	km
Vehicle power supply voltage	14.0 14.0	V
Vehicle speed	0 0	km/h
Engine speed	558 558	1/min
Engine load	17 17	%
Engine temperature	199.6 199.6	°F
Air mass	44 44	%
Air mass flow	19.1 19.1	kg/h
Temperature of intake air	86.1 86.1	°F
Ambient air temperature	62.6 62.6	°F
Ignition angle at cylinder 1	6.00 6.00	°
Lambda control, before TWC right	0.93 0.93	
Lambda control, before TWC left	0.95 0.95	
Lambda set value	1.00 1.00	
Additive mixture correction, right	-6 -6	%
Additive mixture correction, left	-6 -6	%
Right multiplicative adaptation correction	1.05 1.05	
Left multiplicative adaptation correction	1.09 1.09	
Camshaft position 'Exhaust' Right	-20.0 -20.0	°
Camshaft position 'Exhaust' Left	-21.0 -21.0	°
Camshaft position 'Intake' Right	35.0 35.0	°
Camshaft position 'Intake' Left	36.0 36.0	°
Intake manifold pressure	410 410	hPa
Status 'Secondary air system'	Not active Not active	
Position of tank vent valve	0 0	%
Fuel tank level	81 81	%
Fuel tank pressure difference	0 0	hPa
Ambient pressure	950 950	hPa
Position 1 Throttle valve	13 13	%
Time since engine start	1146 1146	s
Operating time	70326 70326	min
Driving distance since fault memory was erased	13905.0 13905.0	km
Driving distance with Check Engine indicator lamp ON	0.0 0.0	km

0750	Self-adaptation of mixture formation for enleanment at idle for the left cylinder bank is below the permissible limit. (P0175)	Current and stored
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Name	Current values (first/last)	Unit
Frequency counter	1	
Kilometer reading	15516.0 15516.0	km
Vehicle power supply voltage	14.0 14.0	V
Vehicle speed	0 0	km/h
Engine speed	558 558	1/min
Engine load	17 17	%

Engine temperature	199.6	199.6	°F
Air mass	44	44	%
Air mass flow	19.1	19.1	kg/h
Temperature of intake air	86.1	86.1	°F
Ambient air temperature	62.6	62.6	°F
Ignition angle at cylinder 1	6.00	6.00	°
Lambda control, before TWC right	0.93	0.93	
Lambda control, before TWC left	0.95	0.95	
Lambda set value	1.00	1.00	
Additive mixture correction, right	-6	-6	%
Additive mixture correction, left	-6	-6	%
Right multiplicative adaptation correction	1.05	1.05	
Left multiplicative adaptation correction	1.09	1.09	
Camshaft position 'Exhaust' Right	-20.0	-20.0	°
Camshaft position 'Exhaust' Left	-21.0	-21.0	°
Camshaft position 'Intake' Right	35.0	35.0	°
Camshaft position 'Intake' Left	36.0	36.0	°
Intake manifold pressure	410	410	hPa
Status 'Secondary air system'	Not active	Not active	
Position of tank vent valve	0	0	%
Fuel tank level	81	81	%
Fuel tank pressure difference	0	0	hPa
Ambient pressure	950	950	hPa
Position 1 Throttle valve	13	13	%
Time since engine start	1146	1146	s
Operating time	70326	70326	min
Driving distance since fault memory was erased	13905.0	13905.0	km
Driving distance with Check Engine indicator lamp ON	0.0	0.0	km

2092	The mixture in the right cylinder bank is too rich when idling.		Current and stored
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Name	Current values (first/last)		Unit
Frequency counter	1		
Kilometer reading	15516.0	15516.0	km
Vehicle power supply voltage	14.0	14.0	V
Vehicle speed	0	0	km/h
Engine speed	558	558	1/min
Engine load	17	17	%
Engine temperature	199.6	199.6	°F
Air mass	44	44	%
Air mass flow	19.1	19.1	kg/h
Temperature of intake air	86.1	86.1	°F
Ambient air temperature	62.6	62.6	°F
Ignition angle at cylinder 1	6.00	6.00	°
Lambda control, before TWC right	0.93	0.93	
Lambda control, before TWC left	0.95	0.95	
Lambda set value	1.00	1.00	
Additive mixture correction, right	-6	-6	%
Additive mixture correction, left	-6	-6	%
Right multiplicative adaptation correction	1.05	1.05	
Left multiplicative adaptation correction	1.09	1.09	
Camshaft position 'Exhaust' Right	-20.0	-20.0	°
Camshaft position 'Exhaust' Left	-21.0	-21.0	°
Camshaft position 'Intake' Right	35.0	35.0	°
Camshaft position 'Intake' Left	36.0	36.0	°
Intake manifold pressure	410	410	hPa
Status 'Secondary air system'	Not active	Not active	
Position of tank vent valve	0	0	%
Fuel tank level	81	81	%
Fuel tank pressure difference	0	0	hPa
Ambient pressure	950	950	hPa
Position 1 Throttle valve	13	13	%
Time since engine start	1146	1146	s
Operating time	70326	70326	min

Driving distance since fault memory was erased	13905.0 13905.0	km
Driving distance with Check Engine indicator lamp ON	0.0 0.0	km

2096	The mixture in the left cylinder bank is too rich when idling.	Current and stored
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Name	Current values (first/last)	Unit
Frequency counter	1	
Kilometer reading	15516.0 15516.0	km
Vehicle power supply voltage	14.0 14.0	V
Vehicle speed	0 0	km/h
Engine speed	558 558	1/min
Engine load	17 17	%
Engine temperature	199.6 199.6	°F
Air mass	44 44	%
Air mass flow	19.1 19.1	kg/h
Temperature of intake air	86.1 86.1	°F
Ambient air temperature	62.6 62.6	°F
Ignition angle at cylinder 1	6.00 6.00	°
Lambda control, before TWC right	0.93 0.93	
Lambda control, before TWC left	0.95 0.95	
Lambda set value	1.00 1.00	
Additive mixture correction, right	-6 -6	%
Additive mixture correction, left	-6 -6	%
Right multiplicative adaptation correction	1.05 1.05	
Left multiplicative adaptation correction	1.09 1.09	
Camshaft position 'Exhaust' Right	-20.0 -20.0	°
Camshaft position 'Exhaust' Left	-21.0 -21.0	°
Camshaft position 'Intake' Right	35.0 35.0	°
Camshaft position 'Intake' Left	36.0 36.0	°
Intake manifold pressure	410 410	hPa
Status 'Secondary air system'	Not active Not active	
Position of tank vent valve	0 0	%
Fuel tank level	81 81	%
Fuel tank pressure difference	0 0	hPa
Ambient pressure	950 950	hPa
Position 1 Throttle valve	13 13	%
Time since engine start	1146 1146	s
Operating time	70326 70326	min
Driving distance since fault memory was erased	13905.0 13905.0	km
Driving distance with Check Engine indicator lamp ON	0.0 0.0	km

Filename: F:\Programme\Das\trees\pkw\motorott\me97\sgscreen\fcscreen.s

Cell co-ordinate: 1, 13

VIN	WDBRF92J56F779433	Model	203.092
		series/model	
		designation	
Order number		License plate	

Control module programming

No newer control module software was found.	
Vehicle ident no. VIN:	WDBRF92J56F779433
Model designation	PKW 203.092
DAS data version	03/2011 (2011-02-10) + AddOn: 1732,1714,1743,1742,1745,1753,175-8,1759,1766,1752,1780,1770,1782,1751,1756,1760,1757,1767,1778,-1763,1801,1802,1804,1769,1777,1783,1792,1798,1805,1810,1787,18-14,1821,1819,1828,1835,1843,1850,1848
Version Control module programming:	03/2011(2011-01-31)
Work path Control module programming	F:\Programme\Das\SDflash\Release\PKW
Control unit ETC MB object number 0355454032 HW version 03/01 SW version 10/05 Diagnosis version 2/82 Supplier Siemens Date of manufacture 10/05 Version (internal) Diagversion52 , EGS1 , EGS52 Current control unit software version: 0355454032_001 No newer control module software was found.	

Filename: F:\Programme\Das\trees\pkw\flashen\zentral\Inbetriebnahme.s
Cell co-ordinate: 13 , 23

VIN	WDBRF92J56F779433	Model	203.092
		series/model	
		designation	
Order number		License plate	

Documentation for repair order WDBRF92J56F779433

Control unit programming was completed successfully.	
The SCN coding sequence has been completed successfully.	
All input fields must be filled out. Print log with function key F11 via menu item 'Printout of test step'. A printout of the log with the repair order number entered must always be filed along with the repair documents for any potential check of warranty and goodwill claims by the MPC. The order log is no longer available after exiting this screen.	
Repair order number	223806
Name of tester	Phil Stapert
Dealer number	705-39424-
User identifier	D7PSTAPE
Date	2011-07-08 00:09 (12:09 am)
DAS data version	03/2011 (2011-02-10) + AddOn: 1732,1714,1743,1742,1745,1753,175-8,1759,1766,1752,1780,1770,1782,1751,1756,1760,1757,1767,1778,-1763,1801,1802,1804,1769,1777,1783,1792,1798,1805,1810,1787,18-14,1821,1819,1828,1835,1843,1850,1848
STAR DIAGNOSIS	SDCompact4
System number	STAR154303
Vehicle ident no. VIN:	WDBRF92J56F779433
Version Control module programming:	03/2011(2011-01-31)
Motor electronics 9.7	
<p>Performed: Control module programming</p> <p>Control unit identification:</p> <p>MB object number 0024467340</p> <p>HW version 00.00 SW version 06.39 Diagnosis version 8/17 Supplier Bosch</p> <p>Version (internal) M272_KE_VC11 , ME97 , ME97</p> <p>Control unit software:</p> <p>Control unit programming was completed successfully.</p> <p>Original control unit software version: 0054481240,0034477140</p> <p>Performed control unit programming: 0044476140_001,0054487040_001</p> <p>Current control unit software version: 0054487040,0044476140</p> <p>SCN coding:</p> <p>The SCN coding sequence has been completed successfully.</p> <p>Part number queried 0024467340</p> <p>Control unit software 0044476140, 0054487040</p> <p>SCN 0024467340-15-3399</p> <p>CVN 759BA61C</p> <p>Old setting(1):</p> <p>33337106057CBF299B090E19470C17D700001100</p> <p>Current setting(1):</p> <p>33337106057CBB299B090E19470C17D700001100</p>	

Filename: F:\Programme\Das\trees\pkw\flashen\zentral\Inbetriebnahme.s
Cell co-ordinate: 35 , 41