



Maintenance Manual USA Model Year 1972–1980

Passenger Cars Volume 1

Printed in Germany

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KD 00 113 2601 63 - (483) 1288 2.0

This Maintenance Manual contains maintenance jobs to be performed on Passenger Cars starting model year 1972 up to model year 1980.

Besides the detailed descriptions (both written and illustrated) of these jobs, all necessary checking and adjustment data as well as filling quantities, fuels, lubricants, and coolants, and information on required special tools and specified tightening torques are included.

Each individual maintenance job is assigned a number (position number) which may be found in the outer upper corner of the respective page, arranged in numerical sequence. The position number in the Maintenance Manual corresponds to the number in the Work Sheets and Maintenance Booklet so that, if necessary, when carrying out the maintenance jobs the corresponding texts and data can be immediately found.

The types or engines to which the work applies are listed below the position number. Information on the maintenance intervals during which the individual jobs should be carried out can be obtained from the tables at the beginning of the manual.

A listing of all maintenance jobs is supplied in the index which is arranged in sequence of the unit groups and respective subjects.

Daimler-Benz Aktiengesellschaft Zentralkundendienst

January 1981

Model designation

	Sales Designation	Model	Engine Type Designation
Sedans	220 D	115.110	615.912
	240 D	115.117	616.916
	240 D	123.123	616.912
	300 D	115.114	617.910
	300 D	123.130	617.912
	300 TD	123.190	617.912
	300 SD	116.120	617.950
	220	115.010	
	230	115.017	
	230	123.023	
	250		
	280		
	280 E		
	280 S		
	280 S		
	280 SE		
	280 SE		
	280 SEL	114.060 110.9 123.033 110.9 108.016 130.9 116.020 110.9 108.018 130.9 116.024 110.9 108.019 130.9 108.067 117.9 108.068 117.9 109.016 130.9 109.056 116.9 109.057 117.9 109.018 100.9 116.032 117.9 116.033 117.9 116.036 100.9 100.012 100.9	
	280 SE 4.5		615.912 616.916 616.912 617.910 617.912
	280 SEL 4.5		
	300 SEL		
	300 SEL 3.5		
	300 SEL 4.5		
	300 SEL 6.3		
	450 SE		
	450 SEL		
	6.9		
	600		
	600 long 4 doors		
	600 long 6 doors	100.014	
Coupés	250 C	114.023	130.923
•	280 C	114.073	
	280 CE	123.053	
	280 SE	111.024	
	280 SE 3.5	111.026	
	300 CD	123.150	
	450 SLC	107.024	
Convertibles	280 SE	111.025	130.980
	280 SE 3.5	111.027	116.980
Roadster	280 SL	113.044	
	450 SL	107.044	117.982/985 ¹)

¹⁾ Engines with CIS (continuous injection system)

ne, mechanical (00–20)		Job)
Compression pressure, check			
Cooling water level, check and correct			
Cylinder head bolt, retighten			
Engines 100.980/981	page	752.1	
114 130		752.3	
Engine oil change with filter care			
Engines 100.980/981	page	151.0	E
100.985		151.1	C
110		151.1	E
114 130 180		151.2	C
115		151.2	Ę
116 117		151.3	C
615 616 617 up to model year 1976		151.3	
616 617 starting model year 1977		151.4	1
617.950 starting model year 1978		151.4	
Heating and venting system, check sealing			
Hose clamps, check for tight fit			
Renewing coolant with anti-freeze			
Supplementary oil filter for hydraulic fan coupling, clean			
Valve clearance, adjust			
Engines 100 116 117		753.1	
110	P = 3 =	753.3	
115 130		753.5	
615 616 617		753.7	
V-belts, check condition and tension			
V-belts, retension			
Engines 100.980		756.0	
100.981	F-3-	756.10	
100.985		756.10	
110 model year 1973–1976		756.2	
starting model year 1977		756.2	
114 130		756.29	
115 model year 1972—1974		756.3	
model year 1975—1976		756.3	
starting model year 1977		756.3	
116 117		756.5	
615 616 617 model year 1972—1976		756.70	
starting model year 1977		756.7	
starting model year 1979		756.7	
.617.950 starting model year 1978		756.7	
V-belts, check condition and retension, all engines, model year 1980			
Slacken engine stop and tighten screws			

Note: The figures in () next to the titles are group numbers

Job No.

ne, combustion (07/09/47/49)			
incl. control linkage, ignition, intake, fuel and exhaust system			
Air filter element, clean			202
Air filter element, replace, model year 1980			200
Air injection, check, model year 1974			769
Begin of delivery, checking, Engines 616 617			78
Carburetor flange, retighten			876
Catalyst, replace			76
Contact breaker points, renew			773
Dwell angle, check			78
Dwell angle and ignition timing, adjust			782
Engine control linkage and control shafts, lubricate			419
Engine control linkage, check			813
Exhaust gas recycling, check, model year 1973/1974			763
Exhaust gas turbo charger, retighten nuts			87
Exhaust system, retighten slip joints			95
Filter of auxiliary air valve, replace			806
Flame guard filament, clean			762
Fuel evaporation system in engine compartment, check, model year 1974			764
Fuel filter, clean/replace			847
Fuel filter element, replace			849
Fuel filter or filter element, replace			840
Fuel lines and hoses of electronically controlled fuel injection system, check for tight fit.			89
Fuel main filter, clean/replace			84
Fuel prefilter, check			844
Fuel pump, clean strainer			851
Fuel pump, renew strainer			852
Fuel system, check condition and sealing			041
Heater flaps, clean and spray			785
Idle speed adjustment, check and adjust			797
Idle speed, check and adjust			798
check with CO measuring instrument and adjust			
Engine 100.985 110.984/985 117.985/986			
with CIS (continuous injection system) up to model year 1979;			
(model year 1980 see Job No. 799)	page 7	98.20)
100 130		798.30	
110 with Solex carburetor 4 A 1		798.35	5
115 with Stromberg carburetor		98.40	
116 117 with electronically controlled gasoline injection system		98.50	
130 with Zenith carburetor		98.55	
Engines 615 616 617 up to model year 1979		98.15	
Engines 616 617.912 model year 1980		98.16	
Engine 617.950 model year 1980		98.17	
Idle speed, check and readjust, model year 1980			, 799
check without CO measuring instrument and adjust			133
Engine 110 117 model year 1980			
Idling speed stabilization, check, model year 1972			793
			774
Ignition change-over, check			772
Intake and exhaust manifolds and exhaust flange, check for tight fit			871
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	Job No.
Others are files, about and adjust all level	101
Oil-bath air filter, check and adjust oil level	
Oil-bath air filter, clean	
Oil level in damper of Stromberg carburetor, check and fill up	
Oil level in injection pump, check	
On-off ratio, readjust if necessary	
Oscillograph picture, evaluate / Check ignition system for condition	
Oxygen sensor, replace	768
Spark plugs, replace	770
Spark plugs. Check, replace if necessary	
Throttle valve, clean, model year 1974	766
Throttle valve lift / coasting conditions, check, model year 1972/1973/1974	796
Clutch (25)	F.0.1
Clutch driven plate, check wear	
Clutch operation, check condition and sealing	
Fluid level of clutch operation, check and correct	
Manual transmission (26)	
Oil change — manual transmission	
Oil level, check and correct	
Test drive	098
Automatic transmission (27)	
Fluid level, check and correct	120
Oil change, automatic transmission	170
Oil filter for automatic transmission, replace	174
Test drive	098
Suspension (32)	
Air suspension system	
Air bellows, check	
Air filter, replace	
Air suspension, check condition	
Condensation from air reservoir, drain	
Fixing bolts of air compressor, tighten	
Fluid level in anti-freeze device, check and top-up	463
Hydro-pneumatic suspension	222
Ball joints of connecting rods for level controller, check	
Fluid level, check and correct	
Pressure reservoir and central reservoir for gas filling pressure, check	
Rubber sleeves of ball joints on tube shocks, check	
System for leaks and condition, check	086



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_	. (00)	
Fro	nt axle (33)	601
	Charge of front wheel bearing, renew grease, check tapered roller bearing (only type 116.036)	631
	Fixing bolts of bearing pins for lower wishbones, retighten	922
	Front axle, grease	250
	Hub caps of front wheel bearings, renew grease	388
	Joints for condition and leaks of rubber sleeves, check	028
	Wheel bearing end play, adjust	630
Rea	ır axle (35)	
	Detent for rear axle carrier, adjust	650
	Front and rear axle, grease	250
	Oil level, check, adjust	130
	Oil change, rear axle	180
Νh	eels and wheel adjustment (40)	
• • • • •	Spherical collar bolt of wheels, retighten	988
	Tires, check, if required interchange wheels	982
	Tire pressure, correct	987
	Toe-in of front wheels, check	625
	Vehicle level on vehicles with air suspension,	02.
	(position of wishbone arms on front axle and rear wheel camber), check	622
	Wheels, remove and refit, disc wheels, check	983
D	wallow shafe (A4)	
Pro	peller shaft (41)	030
	Joint discs of propeller shaft, check	030
Bra	kes (42)	
	Brake cables, check for ease of movement	009
	Brake caliper pistons, check sealing and ease of movement and condition of dust caps	
	(refer to job No. 712)	
	Brake discs, check and clean, remove brake pads for this purpose	712
	Brake discs, check and clean (refer to job No. 712)	
	Brake discs, check; brake discs and air ducts, clean (refer to job No. 712)	
	Brake fluid, renew	702
	Brake pads, remove, clean and check and/or replace (refer to job No. 712)	
	Brake system, bleed	701
	Brake test on dynamometer/Test drive	097
	Front wheel brake/Visual checkup of brake pads	711
	Fluid level of brake system, check and correct	700
	Oil level in vacuum pump	704
	Parking brake, adjust	706
	Ventilation bores on compressed air brake booster, clean	713
	Brake lines, check for damage	714
Ste	ering system (46)	
	Bolts and nuts for high pressure oil pump and support of power steering, retighten	920
	Fixing screws, retighten	924
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Ele	ctrical system (15/54/82)	
	Functional check; lights, signals, windshield washer unit and windshield wipers	099
	Fixing bolts alternator, check	895
	Fluid level of battery, check	821
	Fluid level of windshield washer unit, check	465
Cor	nfort hydraulic system (80)	
	Condition and sealing of comfort hydraulic system, check	023
	Fluid level of comfort hydraulic system, check	494
Hea	ating, venting, air conditioning (83)	
	Bolts and nuts of compressor support, retighten	905
	Functional check, heating and venting	099
	Fluid level of air conditioning, check	484
	Perlon filter in fan wheel (front heater box), replace	497
	Perlon filter in magnetic valve of heater, replace	498
Boo	dy (60–98)	
	Door hinges, lubricate	350
	Door locks, lubricate	393
	Door weather seals, clean	492
	Engine hood, lubricate	395
	Mirror, outside (folding), lubricate	375

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¹⁾ This job is to be carried out yearly if possible in spring 2) Only model 123 3) Only once after 30,000 miles 4) Only Federal version 5) Only California version 6) 5) Only California version 6) This job is to be carried out every other year

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¹⁾ This job is to be carried out yearly if possible in spring 2) This job is only to be carried out at 30,000 miles 3) This job is only to be carried out every other year