



**MERCEDES-BENZ**

***Service***

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# **Maintenance Manual USA Model Year 1972–1980**

**Passenger Cars Volume 1**

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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
<b>Sedans</b>	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	115.920
	230	115.017	115.951
	230	123.023	115.954
	250	114.011	130.923
	280	114.060	110.921
	280 E	123.033	110.984 <sup>1)</sup>
	280 S	108.016	130.920
	280 S	116.020	110.922
	280 SE	108.018	130.980
	280 SE	116.024	110.985 <sup>1)</sup>
	280 SEL	108.019	130.980
	280 SE 4.5	108.067	117.984
	280 SEL 4.5	108.068	117.984
	300 SEL	109.016	130.981
	300 SEL 3.5	109.056	116.981
	300 SEL 4.5	109.057	117.981
	300 SEL 6.3	109.018	100.981
	450 SE	116.032	117.983/986 <sup>1)</sup>
	450 SEL	116.033	117.983/986 <sup>1)</sup>
	6.9	116.036	100.985 <sup>1)</sup>
	600	100.012	100.980
	600 long 4 doors	100.014	100.980
	600 long 6 doors	100.016	100.980
<b>Coupés</b>	250 C	114.023	130.923
	280 C	114.073	110.921
	280 CE	123.053	110.984
	280 SE	111.024	130.980
	280 SE 3.5	111.026	116.980
	300 CD	123.150	617.912
	450 SLC	107.024	117.982/985 <sup>1)</sup>
<b>Convertibles</b>	280 SE	111.025	130.980
	280 SE 3.5	111.027	116.980
<b>Roadster</b>	280 SL	113.044	130.983
	450 SL	107.044	117.982/985 <sup>1)</sup>

<sup>1)</sup> Engines with CIS (continuous injection system)

<b>Engine, mechanical (00–20)</b>	Job No.
Compression pressure, check . . . . .	751
Cooling water level, check and correct . . . . .	990
Cylinder head bolt, retighten . . . . .	752
Engines 100.980/981 . . . . .	page 752.1
114 130 . . . . .	752.3
Engine oil change with filter care . . . . .	151
Engines 100.980/981 . . . . .	page 151.05
100.985 . . . . .	151.10
110 . . . . .	151.15
114 130 180 . . . . .	151.20
115 . . . . .	151.25
116 117 . . . . .	151.30
615 616 617 up to model year 1976 . . . . .	151.35
616 617 starting model year 1977 . . . . .	151.41
617.950 starting model year 1978 . . . . .	151.45
Heating and venting system, check sealing . . . . .	038
Hose clamps, check for tight fit . . . . .	907
Renewing coolant with anti-freeze . . . . .	991
Supplementary oil filter for hydraulic fan coupling, clean . . . . .	156
Valve clearance, adjust . . . . .	753
Engines 100 116 117 . . . . .	page 753.1
110 . . . . .	753.3
115 130 . . . . .	753.5
615 616 617 . . . . .	753.7
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V-belts, retension . . . . .	756
Engines 100.980 . . . . .	page 756.05
100.981 . . . . .	756.10
100.985 . . . . .	756.16
110 model year 1973–1976 . . . . .	756.21
starting model year 1977 . . . . .	756.23
114 130 . . . . .	756.29
115 model year 1972–1974 . . . . .	756.35
model year 1975–1976 . . . . .	756.36
starting model year 1977 . . . . .	756.37
116 117 . . . . .	756.55
615 616 617 model year 1972–1976 . . . . .	756.70
starting model year 1977 . . . . .	756.71
starting February 1979 . . . . .	756.72
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V-belts, check condition and retension, all engines, model year 1980 . . . . .	758
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Slacken engine stop . . . . .	760

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



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incl. control linkage, ignition, intake, fuel and exhaust system	
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Air filter element, replace, model year 1980	203
Air injection, check, model year 1974	765
Begin of delivery, checking, Engines 616 617	787
Carburetor flange, retighten	876
Catalyst, replace	767
Contact breaker points, renew	773
Dwell angle, check	781
Dwell angle and ignition timing, adjust	782
Engine control linkage and control shafts, lubricate	415
Engine control linkage, check	813
Exhaust gas recycling, check, model year 1973/1974	763
Exhaust gas turbo charger, retighten nuts	877
Exhaust system, retighten slip joints	951
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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	891
Fuel main filter, clean/replace	845
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 798.20
100 130	798.30
110 with Solex carburetor 4 A 1	798.35
115 with Stromberg carburetor	798.40
116 117 with electronically controlled gasoline injection system	798.50
130 with Zenith carburetor	798.55
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Engines 616 617.912 model year 1980	798.16
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check <b>without</b> CO measuring instrument and adjust	
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	Job No.
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Oil level in damper of Stromberg carburetor, check and fill up . . . . .	788
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Clutch operation, check condition and sealing . . . . .	045
Fluid level of clutch operation, check and correct . . . . .	510
Test drive – clutch operation and gear shift, check functioning . . . . .	098
<b>Manual transmission (26)</b>	
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Test drive . . . . .	098
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Test drive . . . . .	098
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Air suspension, check condition . . . . .	087
Condensation from air reservoir, drain . . . . .	466
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Rubber sleeves of ball joints on tube shocks, check . . . . .	020
System for leaks and condition, check . . . . .	086



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Job No.

## Front axle (33)

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Fixing bolts of bearing pins for lower wishbones, retighten . . . . .	922
Front axle, grease . . . . .	250
Hub caps of front wheel bearings, renew grease . . . . .	388
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Wheel bearing end play, adjust . . . . .	630

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## Wheels and wheel adjustment (40)

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Vehicle level on vehicles with air suspension, (position of wishbone arms on front axle and rear wheel camber), check . . . . .	622
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## Brakes (42)

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Brake caliper pistons, check sealing and ease of movement and condition of dust caps (refer to job No. 712) . . . . .	712
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Fluid level of windshield washer unit, check . . . . .	465
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Door locks, lubricate . . . . .	393
Door weather seals, clean . . . . .	492
Engine hood, lubricate . . . . .	395
Mirror, outside (folding), lubricate . . . . .	375



## Maintenance Chart Model Years 1972-1974

Job No.	100					114					115.0					115.1				
	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 3,000 miles	Lubrication - every 3,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles
009				●					●					●					●	
023	●	●		●																
025				●					●					●					●	
028				●					●					●					●	
029	This Job No. is contained in Job No. 025																			
030					●					●					●					●
038	●	●		●		●	●		●		●	●		●		●	●		●	●
041	●	●		●		●	●		●		●	●		●		●	●		●	●
045						●	●		●		●	●		●		●	●		●	●
087		●		●					●					●					●	●
097				●					●					●					●	●
098				●					●					●					●	●
099				●					●					●					●	●
101																	●			
120	●	●		●		●	●		●		●	●		●		●	●		●	●
121									●					●					●	●
130				●					●					●					●	●
134	●	●		●		●	●		●		●	●		●		●	●		●	●
135						●	●		●		●	●		●		●	●		●	●
151	●	●	●	●		●	●	●	●		●	●	●	●		●	●	●	●	●
156	●	●		●															●	●
170					●				●					●						●
171						●	●				●	●				●	●			●
174					●				●		●	●		●		●	●			●
180	●	●				●	●				●	●				●	●			●
202				●					●					●					●	●
205																			●	●
350				●					●					●					●	●
380	To meet technical progress, install maintenance-free ball joints																			
388				●					●					●					●	●
393				●					●					●					●	●
395				●					●					●					●	●
398	Due to further development of long-term lubricants no longer required																			
415		●	●	●			●	●	●			●	●	●			●	●	●	●
463	●	●		●																
465	●	●		●		●	●		●		●	●		●		●	●		●	●
466		●		●																
470					●															
484		●		●					●			●		●				●	●	●
494	●	●		●															●	●
497					●															
498					●															
501									●					●						●
510						●			●		●			●		●			●	●
530	Deleted as result of technical progress																			
612	Deleted as result of technical progress																			



# Maintenance Chart Model Years 1972-1974

Job. No.	100					114					115.0					115.1					
	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 3,000 miles	Lubrication - every 3,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	
622					●					●											●
625					●					●					●						●
630		●					●					●					●				
676					●																
700	●			●		●			●		●			●		●			●		
701				●																	●
702 <sup>1)</sup>					●					●					●						●
703	This Job No. is contained in Job No. 712																				
704															●						
706									●					●					●		
707	This Job No. is contained in Job No. 712																				
708	This Job No. is contained in Job No. 712																				
709	This Job No. is contained in Job No. 712																				
712				●					●					●						●	
713				●																	●
714				●					●					●						●	
751				●					●					●						●	
752	●					●				●				●		●				●	
753	●			●		●			●		●			●		●			●		
756	●					●				●				●		●				●	
757				●										●						●	
762									●					●						●	
763									●					●						●	
764 <sup>2)</sup>									●					●						●	
765 <sup>2)</sup>									●					●						●	
770				●					●					●						●	
772	●	●				●	●			●	●			●						●	
773				●					●					●						●	
774									●					●						●	
781	●	●				●	●			●	●			●						●	
782				●					●					●						●	
785									●					●						●	
788												●		●						●	
796				●					●					●						●	
797																				●	
798	●	●		●		●	●		●		●	●		●					●	●	
800		●		●					●					●					●	●	
813				●					●					●					●	●	
821		●		●			●		●			●		●			●		●	●	
832				●					●					●						●	
844																					●
845																					●
847										●											
849				●																	
851									●					●							
852									●												

## Maintenance Chart Model Years 1972-1974

Job. No.	100					114					115.0					115.1				
	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 3,000 miles	Lubrication - every 3,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles
871	●				●	●				●					●					●
876	●					●				●					●					●
895	●														●	●			●	
902	●																			
905	●					●				●					●					
907	●					●				●					●					
920																				
924	●			●		●			●	●			●		●				●	
951	●					●				●					●					
982				●					●				●						●	
983				●					●				●						●	
987	●			●		●			●	●			●		●				●	
988	●			●		●			●	●			●		●				●	
990	●	●		●		●	●		●	●	●		●		●	●			●	

1) This job is to be carried out yearly if possible in spring  
 2) Only with California exhaust emission control, model year 1974

# Maintenance Chart Model Years 1972-1974

Job. No.	107					108 111 113					109					116				
	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 3,000 miles	Lubrication - every 3,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles
009				●					●					●					●	
025				●					●					●					●	
028				●															●	
029	This Job No. is contained in Job No. 025																			
030					●					●					●					●
038	●	●		●		●	●		●		●	●		●		●	●		●	
041	●	●		●		●	●		●		●	●		●		●	●		●	
045						●	●		●		●	●		●					●	
087													●							
097				●					●					●					●	
098				●					●					●					●	
099				●					●					●					●	
120	●	●		●		●	●		●		●	●		●		●	●		●	
121									●					●					●	
130				●					●					●					●	
134	●	●		●		●	●		●		●	●		●		●	●		●	
135							●		●			●		●					●	
151	●	●	●	●		●	●	●	●		●	●	●	●		●	●	●	●	
170				●					●					●					●	
171						●	●		●		●	●		●					●	
174				●					●					●					●	
180	●	●				●	●		●		●	●		●		●	●		●	
202				●					●					●					●	
250						●	●		●		●	●		●					●	
350				●					●					●					●	
380	To meet technical progress, install maintenance-free ball joints																			
388				●					●					●					●	
393				●					●					●					●	
395				●					●					●					●	
398	Due to further development of long-term lubricants no longer required																			
415		●	●	●			●	●	●			●	●	●			●	●	●	
463											●	●		●		●	●		●	
465	●	●		●		●	●		●		●	●		●		●	●		●	
466												●		●					●	
470														●					●	
484		●		●			●		●			●		●			●		●	
501				●					●					●					●	
510						●			●		●			●					●	
530	Deleted as result of technical progress																			
612	Deleted as result of technical progress																			
625				●					●					●					●	
630		●					●					●					●			
676														●					●	
700	●			●		●			●		●			●		●			●	
702 <sup>1)</sup>				●					●					●					●	
703	This Job No. is contained in Job No. 712																			

## Maintenance Chart Model Years 1972-1974

Job. No.	107					108	111	113	109					116						
	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 5,000 miles	Lubrication - every 5,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles	1. Inspection at 200-600 miles	2. Inspection at 3,000 miles	Lubrication - every 3,000 miles	Maintenance - every 10,000 miles	Additionally every 30,000 miles
706				●				●					●					●		
707/708/709	This Job No. is contained in Job No. 712																			
712				●				●					●							●
714																				
751				●				●					●							●
752	●					●				●					●					●
753	●			●		●				●			●		●					●
756	●					●				●					●					●
757				●				●					●							●
762				●				●					●							●
763				●				●					●							●
764 <sup>2)</sup>				●				●					●							●
765 <sup>2)</sup>				●				●					●							●
766 <sup>2)</sup>				●				●					●							●
770				●				●					●							●
772	●	●				●	●			●	●				●	●				●
773				●				●					●							●
774 <sup>1)</sup>				●				●					●					●		
781	●	●				●	●			●	●				●	●				●
782				●				●					●							●
785								●					●							●
793 <sup>3)</sup>								●					●							●
796 <sup>1)</sup>								●					●							●
798	●	●		●		●	●			●	●				●	●				●
800												●			●					●
806								●					●							●
813				●				●					●							●
821		●		●		●				●			●				●			●
832				●				●					●							●
840					●					●					●					●
847					●					●					●					●
851										●					●					●
871	●				●	●				●	●				●	●				●
876						●				●					●					●
891	●	●				●	●			●	●				●	●				●
902										●	●				●	●				●
905	●					●				●	●				●	●				●
907	●					●				●	●				●	●				●
922						●				●	●				●	●				●
924	●			●		●				●	●				●	●				●
951	●					●				●	●				●	●				●
982				●				●					●							●
983				●				●					●							●
987	●			●		●				●	●				●	●				●
988	●			●		●				●	●				●	●				●
990	●	●		●		●				●	●				●	●				●

- 1) This job is to be carried out yearly if possible in spring
- 2) Only with California exhaust emission control, model year 1974
- 3) Only type 280 SE (108.018), model year 1972

