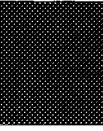


General, technical data 00



	Job No.
Instructions for use of service manual	00 - 005
Engine and vehicle identification	- 010
Vehicle identification number locations	- 015
Technical data	- 020

Complete Service Manual coverage for late model year Mercedes-Benz vehicles requires four individual manuals:

- Service Manual, Engine
- Service Manual, Chassis and body
- Service Manual, Heating and air conditioning

Throughout these manuals, the vehicles are identified by their **chassis** and engine numbers. These numbers are made up of the first six digits of the respective **serial** number. For the actual location of chassis and **engine** numbers, see page **00-015.1**. In case where the repair instructions apply to all **versions**, only the first three digits of the respective number are referenced.

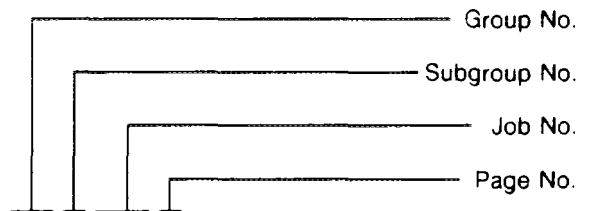
For example, chassis 124 applies to all 124 models. However, chassis 124.050 would only apply to model 300 CE.

Location of specific repair instructions

First locate the **Group No. in** the Group Index. Individual groups are separated by an **easily** visible dividing page, which is followed by the job index page. Then check the job index for the exact job required. The first page of a typical job description looks like this:

32-120 Mounting of crankshaft

Job Title appears on _____
same line as Group
No.



03.9-320/1

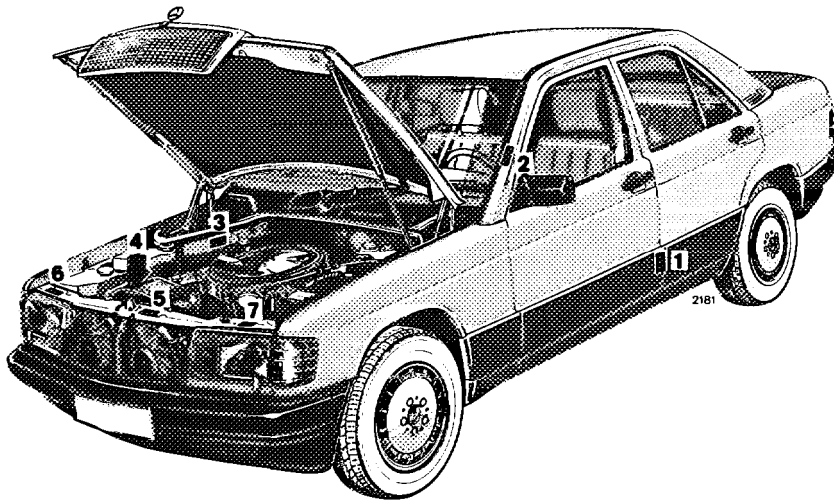
Technical data, tightening torques and tools are listed at the **beginning** of each job.

All dimensions are in metric units, unless otherwise indicated. Any part numbers given are only used for identification and easier differentiation between individual components, and are not intended for ordering purposes.

Engine	Model	Sales designation	Power in kW at rpm	Compression ratio
103.940	124.026	260 E	118/5800	9.2:1
103.942	201.029	190 E 2.6	118/5800	9.2:1
103.981	126.024	300 SE	132/5700	9.2:1
103.981	126.025	300 SEL	132/5700	9.2:1
103.982	107.041	300 SL	132/5700	9.2:1
103.983	124.030	300 E	132/5700	9.2:1
103.983	124.050	300 CE	132/5700	9.2:1
103.983	124.090	300 TE	132/5700	9.2:1
103.985	124.230	300 E 4MATIC	132/5700	9.2:1
103.985	124.290	300 TE 4MATIC	132/5700	9.2:1

Model 201

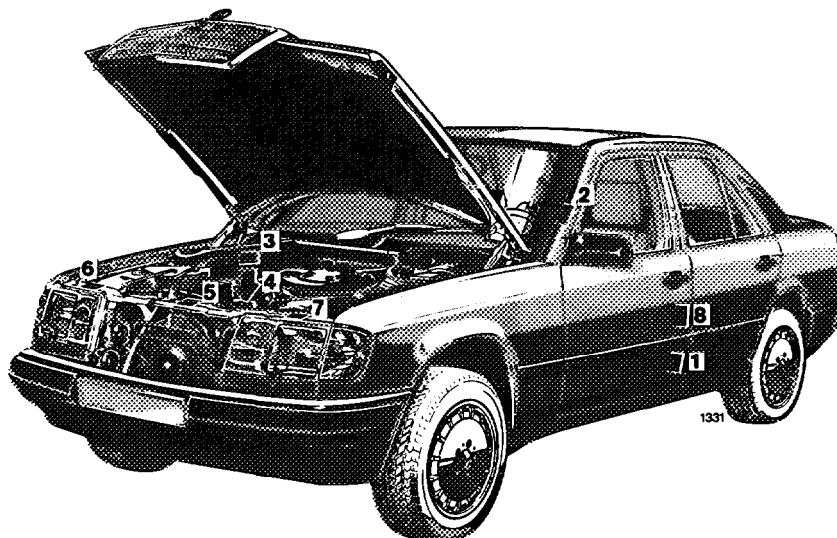
When ordering spare parts, please specify chassis and engine numbers.



- 1 Certification Tag (left door pillar)
- 2 Identification Tag (left windshield post)
- 3 Vehicle Identification No.
- 4 Engine No.
- 5 Body No. and Paintwork No.
- 6 Information Tag
California version
Vacuum line routing for emission control system
- 7 Emission Control Tag

Model 124 (4MATIC similar)

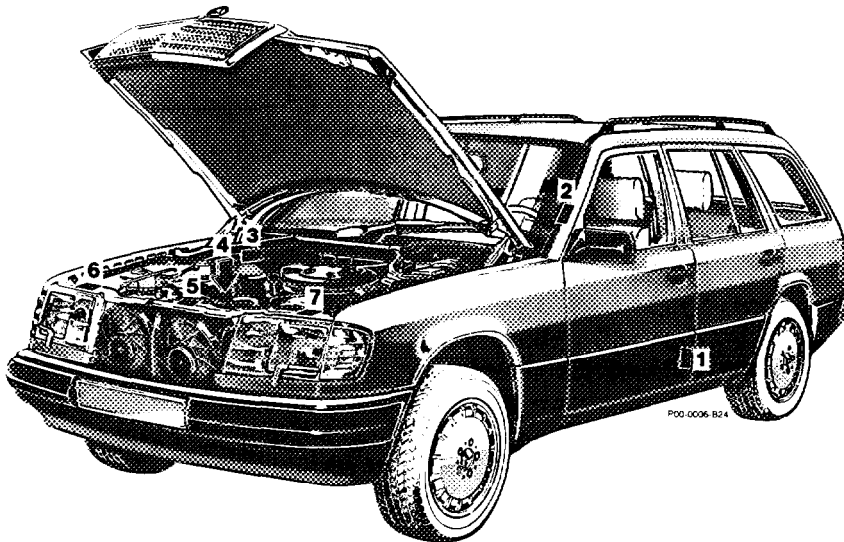
When ordering spare parts, please specify chassis and engine numbers.



- 1 Certification Tag (left door pillar)
- 2 Identification Tag (left window post)
- 3 Vehicle Identification No.
- 4 Engine No.
- 5 Body No. and Paintwork No.
- 6 Information Tag
California version
Vacuum line routing for emission control system
- 7 Emission Control Tag
- 8 Emission Control Tag
Catalyst Information

Model 124 TE (4MATIC similar)

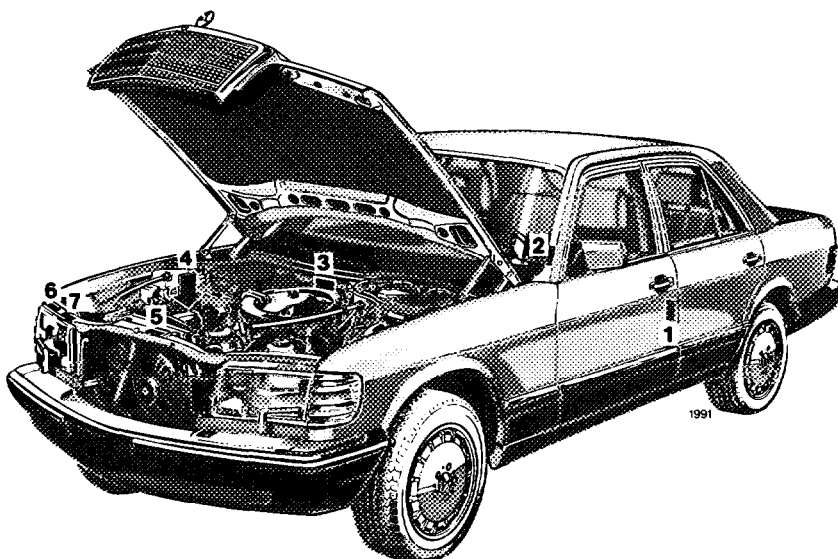
When ordering spare parts, please specify chassis and engine numbers.



- 1 Certification Tag (left door pillar)
- 2 Identification Tag (left windshield post)
- 3 Vehicle Identification No.
- 4 Engine No.
- 5 Body No. and Paintwork No.
- 6 Information Tag
California version
Vacuum line routing for emission control system
- 7 Emission Control Tag

Model 126 (SEL, SE similar)

When ordering spare parts, please specify chassis and engine numbers.



- 1 Certification Tag (left door pillar)
- 2 Identification Tag (left window post)
- 3 Vehicle Identification No.
- 4 Engine No.
- 5 Body No. and Paintwork No.
- 6 Emission Control Tag
- 7 information Tag
California version
Vacuum line routing for emission control system

Gasoline engines

Model	124.026	201.029	126.024	126.025
Sales designation	260 E	190 E 2.6	300 SE	300 SEL
Engine	103.940	103.942	103.981	103.961
Operation	4-cycle, electronic/ mechanical gasoline injection system with airflow sensor (CIS-E)	4-cycle, electronic/ mechanical gasoline injection system with airflow sensor (CIS-E)	4-cycle, electronic/ mechanical gasoline injection system with airflow sensor (CIS-E)	4-cycle, electronic, mechanical gasoline injection system with airflow sensor (CIS-E)
Number of cylinders	6	6	6	6
Cylinder arrangement	In-line 15° inclination	In-line 15° inclination	In-line 15° inclination	In-line 15° inclination
Bore/stroke mm	82.9/80.25	82.9/80.25	88.5/80.25	88.5/80.25
Total effective piston displacement cc	2599	2599	2962	2962
Compression ratio	9.2	9.2	9.2	9.2
Firing order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4
Maximum speed rpm	6550 ± 50	6550 ± 50	6350 ± 50	6350 ± 50
Engine output (SAE)kW/rpm net bhp/rpm	118/5800 158.5800	118.5800 158.5800	132.5700 177.5700	132.5700 177.5700
Maximum torque Nm/rpm net lb-ft./rpm	220/4600 162/4400	220.4600 162.4400	255.4400 188.4400	255.4400 166.4400
Crankshaft bearings	7	7	7	7
Valve arrangement	Overhead	Overhead	Overhead	Overhead
Camshaft arrangement	1 overhead camshaft	1 overhead camshaft	1 overhead camshaft	1 overhead camshaft
Oil cooling	-	-	-	-
Cooling	Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator	Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator	Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator	Coolant circulating pump, thermostat with bypass line fan with visco fan clutch, finned tube radiator
Lubrication	Pressure lubrication via gear type pump	Pressure lubrication via gear type pump	Pressure lubrication via gear type pump	Pressure lubrication via gear type pump
Oil filter	Full flow filter	Full flow filter	Full flow filter	Full flow filter
Air cleaner	Dry paper cartridge	Dry paper cartridge	Dry paper cartridge	Dry paper cartridge

Gasoline engines

Model	124.030	124.050	124.090
Sales designation	300 E	300 CE	300 TE
Engine	103.983	103.983	103.983
Operation	4-cycle, electronic/mechanical gasoline injection system with airflow sensor (CIS-E)	4-cycle, electronic/mechanical gasoline injection system with airflow sensor (CIS-E)	4-cycle, electronic/mechanical gasoline injection system with airflow sensor (CIS-E)
Number of cylinders	6	6	6
Cylinder arrangement	In-line 15° inclination	In-line 15° inclination	In-line 15° inclination
Bore/stroke mm	88.5/80.25	88.5/80.25	88.5/80.25
Total effective piston displacement cc	2962	2962	2962
Compression ratio	9.2	9.2	9.2
Firing order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4
Maximum speed rpm	6350 ± 50	6350 ± 50	6350 ± 50
Engine output (SAE)kW/rpm net bhp/rpm	132/5700 177/5700	132/5700 177/5700	132/5700 177/5700
Maximum torque Nm/rpm net lb-ft./rpm	255/4400 188/4400	255/4400 188/4400	255/4400 188/4400
Crankshaft bearings	7	7	7
Valve arrangement	Overhead	Overhead	Overhead
Camshaft arrangement	1 overhead camshaft	1 overhead camshaft	1 overhead camshaft
Oil cooling	-		-
Cooling	Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator	Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator	Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator
Lubrication	Pressure lubrication via gear type pump	Pressure lubrication via gear type pump	Pressure lubrication via gear type pump
Oil filter	Full flow filter	Full flow filter	Full flow filter
Air cleaner	Dry paper cartridge	Dry paper cartridge	Dry paper cartridge

Gasoline engines

Model	124.230	124.290
Sales designation	300 E 4MATIC	300 TE 4MATIC
Engine	103.985	103.985
Operation	4-cycle, electronic1 mechanical gasoline injection system with airflow sensor (CIS-E)	4-cycle, electronic/ mechanical gasoline injection system with airflow sensor (CIS-E)
Number of cylinders	6	6
Cylinder arrangement	In-line 15° inclination	In-line 15° inclination
Bore/stroke mm	88.5/80.25	88.5/80.25
Total effective piston displacement cc	2962	2962
Compression ratio	9.2	9.2
Firing order	1-5-3-6-2-4	1-5-3-6-2-4
Maximum speed rpm	6350 ± 50	6350 ± 50
Engine output (SAE)kW/rpm net bhp/rpm	132/5700 177/15700	132/5700 177/15700
Maximum torque Nm/rpm net lb-ft./rpm	255/14400 188/4400	255/14400 188/14400
Crankshaft bearings	7	7
Valve arrangement	Overhead	Overhead
Camshaft arrangement	1 overhead camshaft	1 overhead camshaft
Oil cooling	.	
Cooling	Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator	Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator
Lubrication	Pressure lubrication via gear type pump	Pressure lubrication via gear type pump
Oil filter	Full flow filter	Full flow filter
Air cleaner	Dry paper cartridge	Dry paper cartridge

00-020 Technical data

Electrical system

Model	124.026	201.029	126.024 126.025	124.030, 124.050 124.090	124.230 124.290
Sales designation	260 E	190 E 2.6	300 SE 300 SEL	300 E 300 CE 300 TE	300 E 4MATIC 300 TE 4MATIC
Engine	103.940	103.983	103.981	103.983	103.985
Battery Voltage Capacity	12 v 62 Ah	12 v 62 Ah	12 V 62 Ah	12 V 62 Ah	12 V 62 Ah
Starter Bosch	12 v 1.7 kW	12 v 1.7 kW	12 v 1.7 kW	12 v 1.7 kW	12 v 1.7 kW
Alternator	14 V 80 A	14V 80A	14 V 80 A	14V 80A	14 V 80 A

Filling capacities

Model	124.026	201.029	126.024	126.025
Sales designation	260 E	190 E 2.6	300SE	300 SEL
Engine	103.940	103.942	103.981	103.981
Fuel tank/reserve approx. l	70/9.0	55/6.0	90/12.5	90/12.5
Engine oil initial filling approx. l	6.5	6.5	6.5	6.5
During oil and filter change approx. l	6.0	6.0	6.0	6.0
Marks on dipstick max./min. approx. l	5.7/3.7	5.7/3.7	5.7/3.7	5.7/3.7
Cooling system with heater approx. l	9.0 (MY1987) 10.0 (MY1988- up)	10.0	10.0	10.0

Filling capacities (continued)

Model	124.030	124.050	124.090	124.230	124.290
Sales designation	300 E	300 CE	300 TE	103.985	103.985
Engine	103.983	103.983	103.983	300 E 4MATIC	300 TE 4MATIC
Fuel tank/reserve approx. l	70/9.0	70/9.0	72/9.0	70/9.0	72/9.0
Engine oil initial filling approx. l	6.5	6.5	6.5	6.5	6.5
During oil and filter change approx. l	6.0	6.0	6.0	6.0	6.0
Marks on dipstick max./min. approx. l	5.7/3.7	5.7/3.7	5.7/3.7	5.7/3.7	5.7/3.7
Cooling system with heater approx. l	8.0 (MY1986) 9.0 (MY1987) 10.0 (MY1988- up)	10.0	10.0	10.0	10.0