

## 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:

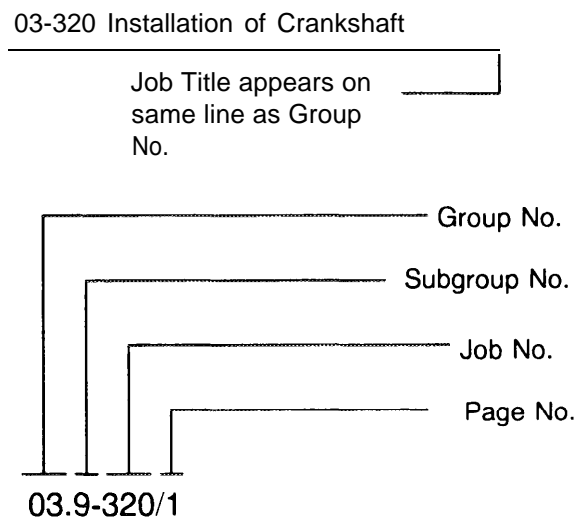
- Service Manual, Engine
- Service Manual, Chassis and Body
- Service Manual, Automatic Climate Control
- Electrical Troubleshooting Manual

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 cases 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. 128 would apply only to model 3000 2.5 Turbo.

## 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. The exact job required is found in the job index. The initial page of a typical job description appears as follows:



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 differentiation between individual components, and are not intended for ordering purposes.

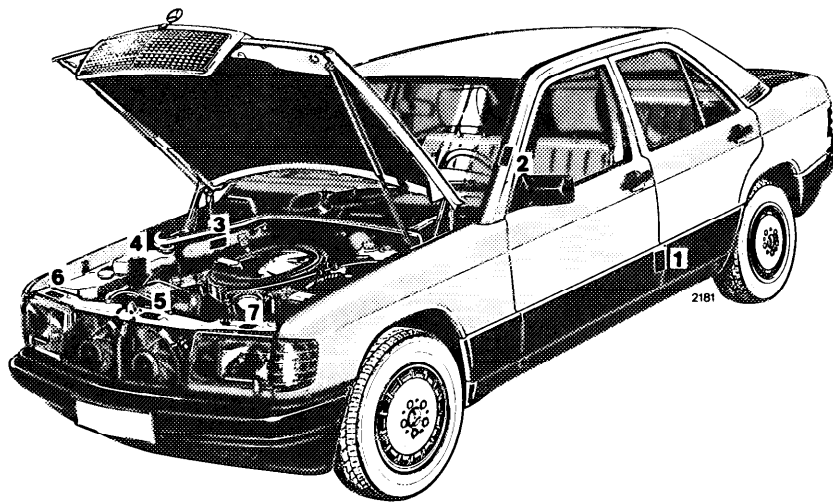
## Special Instructions

- ⚠ Warning**      Appears throughout service instructions indicating the possibility of personal injury if procedures are not followed.
- Caution!**      Indicates possible equipment or vehicle damage if procedures are not followed.
- Note**              Provides helpful information for the described procedure.
- Installation note**      Provides detailed information during assembly.

Model Year	Model	Sales designation	Engine
1986	201. 126	190 D 2.5	602. 911
	126. 125	300 SDL Turbo (Federal)	603. 961
	126. 125	300 SDL Turbo (California)	603. 961
1987	201. 126	190 D 2.5	602. 911
	201. 128	190 D 2.5 Turbo (Federal)	602. 961
	124. 133	300 D Turbo	603. 960
	124. 193	300TD Turbo	603. 960
	126. 125	300 SDL Turbo	603. 961
1988	201. 126	190 D 2.5 (Federal)	602. 911
1989	201. 126	190 D 2.5 (Federal)	602. 911
1990	124. 128	300 D 2.5 Turbo (Federal)	602. 962
	126. 135	350 SDL Turbo (Federal)	603. 970
1991	124. 128	300 D 2.5 Turbo (Federal)	602. 962
	126. 134	350 SD Turbo (Federal)	603. 970
	126. 135	350 SDL Turbo (Federal)	603. 970

## Model 201

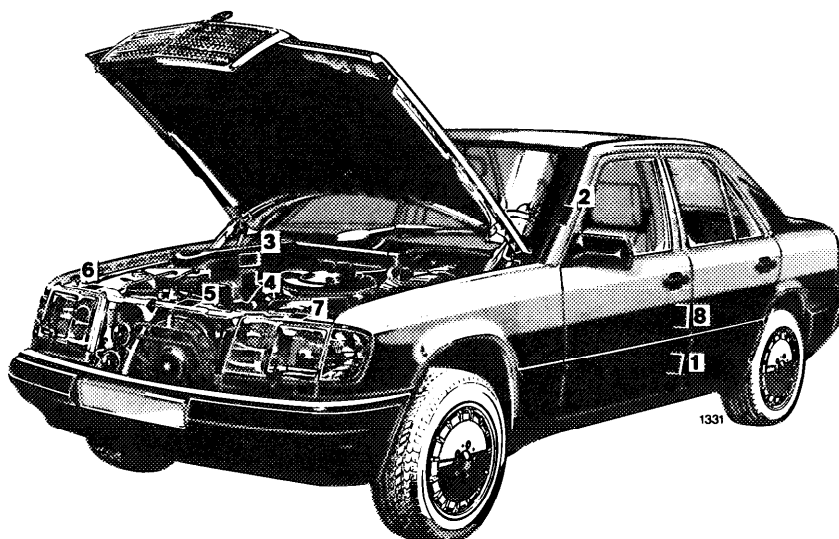
When ordering spare parts, please specify chassis and engine numbers.



- 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

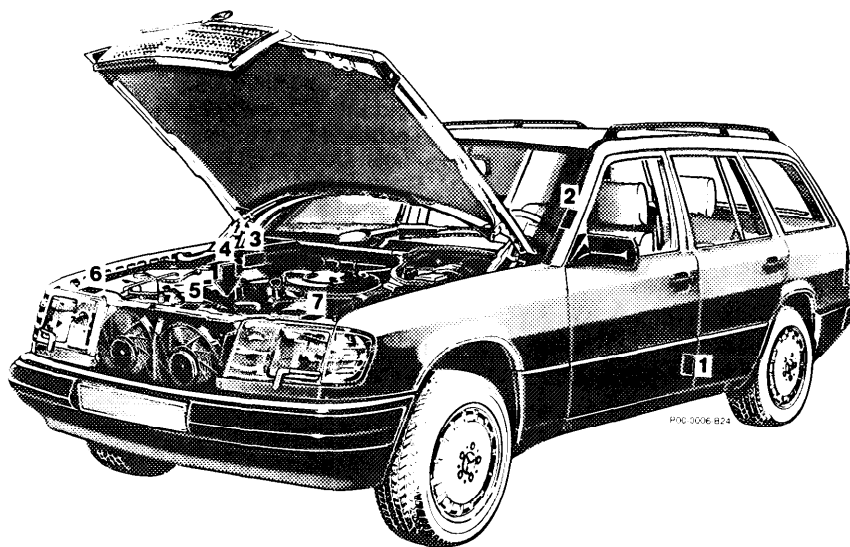
When ordering spare parts, please specify chassis and engine numbers.



- 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 T**

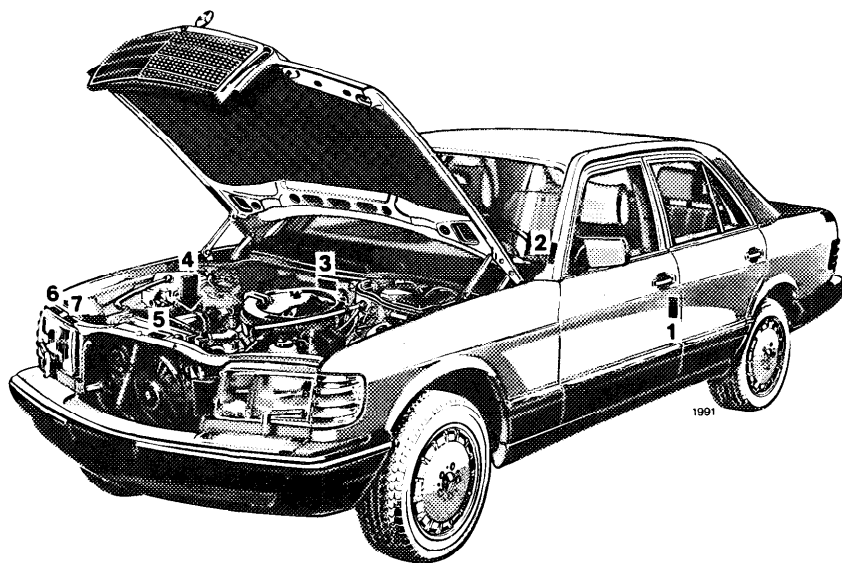
When ordering spare parts, please specify chassis and engine numbers.



- 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 Informatron Tag  
California version  
Vacuum line routing for emission control system
- 7 Emission Control Tag

**Model 126**

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 Informatron Tag  
California version  
Vacuum line routing for emission control system

## Diesel engines

Model	201.126	201.128	124.128	124.133 / 124.193
Sales designation	190 D 2.5	190 D 2.5 Turbo (Federal)	300 D 2.5 Turbo (Federal)	300 D Turbo 300 TD Turbo
Engine	602.911	602.961	602.962	603.960
Operation	4-cycle diesel, MB prechamber design	4-cycle diesel, MB prechamber design	4-cycle diesel, MB prechamber design	4-cycle diesel, MB prechamber design
Aspiration	Normal	Turbo	Turbo	Turbo
Number of cylinders	5	5	5	6
Cylinder arrangement	In-line 15° inclination	In-line 15° inclination	In-line 15° inclination	In-line 15° inclination
Bore/stroke mm	87.0/84.0	87.0/84.0	87.0/84.0	87.0/84.0
Total effective piston displacement cc	2497	2497	2497	2996
Compression ratio	22.0 : 1	22.0 : 1	22.0 : 1	22.0 : 1
Firing order	1-2-4-5-3	1-2-4-5-3	1-2-4-5-3	1-5-3-6-2-4
Maximum speed rpm	5150 ± 150	5150 ± 150	4600 ± 50	5150 ± 150
Engine output (SAE)kW/rpm net bhp/rpm	69/4600 93/4600	92/4600 123/4600	90/4600 120/4600	107/4600 143/4600
Maximum torque Nm/rpm net lb-ft./rpm	165/2800 122/2800	228/2400 168/2400	223/2400 164/2400	265/2400 195/2400
Crankshaft bearings	6(multi-component, anti-friction bearings)	6 (multi-component, anti-friction bearings)	6 (multi-component, anti-friction bearings)	7 (multi-component, anti-friction bearings)
Valve arrangement	Overhead	Overhead	Overhead	Overhead
Camshaft arrangement	1 overhead camshaft	1 overhead camshaft	1 overhead camshaft	1 overhead camshaft
Oil cooling	-	Oil-to-air cooler	Oil-to-air cooler	Oil-to-air cooler
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	Combination full flow and bypass filter	Combination full flow and bypass filter	Combination full flow and bypass filter
Air cleaner	Dry paper cartridge	Dry paper cartridge	Dry paper cartridge	Dry paper cartridge

## Gasoline engines

Model	126.125	1126.125	126.134 / .135
Sales designation	300 SDL Turbo (Federal)	300 SDL Turbo (California)	350 SD / SDL Turbo (Federal)
Engine	603.961	603.961	603.970
Operation	4-cycle diesel, MB prechamber design	4-cycle diesel, MB prechamber design	4-cycle diesel, MB prechamber design
Aspiration	Turbo	Turbo	Turbo
Number of cylinders	6	6	6
Cylinder arrangement	In-line 15° inclination	In-line 15° inclination	In-line 15° inclination
Bore/stroke mm	<b>87.0/84.0</b>	87.0/84.0	89.0/92.4
Total effective piston displacement cc	2996	2996	3449
Compression ratio	22.0 : 1	22.0 : 1	22.0 : 1
Firing order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4
Maximum speed rpm	5150 ± 150	5150 ± 150	4250 ± 50
Engine output (SAE)kW/rpm net bhp/rpm	11 0/4600 1481/4600	1071/4600 143/4600	100/4000 133/4000
Maximum torque Nm/rpm net lb-ft./rpm	273/12400 201/12400	265/2400 195/2400	310/2000 228/12000
Crankshaft bearings	7 (multi-component, anti-friction bearings)	7 (multi-component, anti-friction bearings)	7 (multi-component, anti-friction bearings)
Valve arrangement	Overhead	Overhead	Overhead
Camshaft arrangement	1 overhead camshaft	1 overhead camshaft	1 overhead camshaft
Oil cooling	Oil-to-air cooler	Oil-to-air cooler	Oil-to-air cooler
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	Combination full flow and bypass filter	Combination full flow and bypass filter	Combination full flow and bypass filter
Air cleaner	Dry paper cartridge	Dry paper cartridge	Dry paper cartridge



## Filling capacities

Model	201.126	201.128 (Federal)	124.128 (Federal)	124.133, 124.193	126.125 (Federal)
Sales designation	190 D 2.5	190 D 2.5 Turbo	300 D 2.5 Turbo	300 D Turbo 300 TD Turbo	300 SDL Turbo
Engine	602.911	<del>602.961</del>	602.962	<b>603.960</b>	603.961
Fuel tank/reserve approx. l	55/7.0	55/7.0	70/9.0	70/9.0 72/10.0	90/12.5
Engine oil initial filling approx. l	8.0	8.2	8.2	9.2	9.2
During oil and filter change approx. l	7.0	7.5	7.0	8.0	8.0
Marks on dipstick max./min. approx. l	5.5/3.5	6.0/4.0	6.0/4.0	6.5/4.5	6.5/4.5
Oil-to-air cooler with hoses	-	0.7	0.7	1.1	0.65
Cooling system with heater approx. l	8.0	8.0	9.0	10.0	12.5

## Filling capacities (continued)

Model	126.125 (California)	126.134 / .135 (Federal)
Sales designation	300SDL Turbo	350 SD Turbo 350 SDL Turbo
Engine	603.961	603.970
Fuel tank/reserve approx. l	90/12.5	90/12.5
Engine oil initial filling approx. l	9.2	9.2
During oil and filter change approx. l	8.0	7.5
Marks on dipstick max./min. approx. l	6.5/4.5	6.5/4.5
Oil-to-air cooler with hoses	0.65	0.65
Cooling system with heater approx. l	10.0	10.0

**Electrical system**

Model	201.126	201.128 (Federal)	124.128 (Federal)	124.133, 124.193	126.125 (Federal)
Sales designation	190 D 2.5	190 D 2.5 Turbo	300 D 2.5 Turbo	300 D Turbo 300 TD Turbo	300 SDL Turbo
Engine	602.911	<b>602.961I</b>	602.962	603.960	603.961
Battery Voltage Capacity	12 v 62 Ah (M.Y. 1986) 92 Ah (from M. Y. 1987)	<b>12 v 92 Ah</b>	12 v	12 v 92 Ah	12 v 92 Ah
Starter Bosch	12 v 2.2 kW	12 V 2.2 kW	12 V	12V 2.2 kW	12 v 1.5 kW
Alternator	14 V 70 A	14 V 70 A	14 V 70 A	14 V 70 A	14V 80A

**Electrical system**

Model	126.125 (California)	126.134./135 (Federal)
Sales designation	300SDL Turbo	350 SD Turbo 350 SDL Turbo
Engine	603.961	603.970
Battery Voltage Capacity	12 v 62 Ah	12 v 62 Ah
Starter Bosch	12 v 2.2 kW	12 v 1.7 kW
Alternator	14 V 70 A	14V 80A