

Gasoline engines

Model	126.024	126.025	126.032
Sales designation	300 SE (Model years 1988 - 1991)	300 SEI (Model years 1988 - 1991)	380 SE (Model years 1984 - 1985)
Engine	103.981	103.981	116.963
Operation	4-stroke spark ignition, CIS-E continuous flow injection system with volume air flow sensor (CFI)	4-stroke spark ignition, CIS-E continuous flow injection system with volume air flow sensor (CFI)	4-stroke spark ignition, CIS continuous flow injection system with volume air flow sensor (CFI)
Aspiration	Natural	Natural	Natural
Number of cylinders	6	6	8
Cylinder arrangement	In-line, 15° inclination	In-line, 15° inclination	V8, 90°
Bore/stroke mm	88.50/80.25	88.50/80.25	88.00/78.90
Total effective piston displacement cc	2962	2962	3839
Compression ratio	9.2:1	9.2:1	8.3:1
Firing order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-4-8-6-3-7-2
Maximum speed rpm	6550 ± 50	6550 ± 50	5300 ± 50
Engine output (SAE)kW/rpm net bhp/rpm	132/5700 177/5700	132/5700 177/5700	115/4750 155/4750
Maximum torque Nm/rpm net lb-ft./rpm	255/4400 188/4400	255/4400 188/4400	275/2750 196/2750
Crankshaft bearings	7	7	5
Valve arrangement	Overhead, 2 per cylinder	Overhead, 2 per cylinder	Overhead, 2 per cylinder
Camshaft arrangement	Single Overhead Camshaft	Single Overhead Camshaft	Single Overhead Camshaft
Oil cooling	-	-	-
Cooling	Pressurized liquid cooling system with circulation pump, thermostat with bypass line	Pressurized liquid cooling system with circulation pump, thermostat with bypass line	Pressurized liquid cooling system with circulation pump, thermostat with bypass line
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 filter	Dry air filter with paper cartridge	Dry air filter with paper cartridge	Dry air filter with paper cartridge

00-0015 Technical data

Gasoline engines (continued)

Model	126.033	126.035	126.037
Sales designation	380 SEL (Model years 1981 - 1983)	420 SEL (Model years 1988 - 1991)	500 SEL (Model year 1984 - 1985)
Engine	116.961 116.963	116.965	117.963
Operation	4-stroke spark ignition, CIS continuous flow injection system with volume air flow sensor (CFI)	4-stroke spark ignition, CIS-E continuous flow injection system with volume air flow sensor (CFI)	4-stroke spark ignition, CIS continuous flow injection system with volume air flow sensor (CFI)
Aspiration	Natural	Natural	Natural
Number of cylinders	8	8	8
Cylinder arrangement	V8, 90°	V8, 90°	V8, 90°
Bore/stroke mm	88.00/78.90	92.00/78.90	96.50/85.00
Total effective piston displacement cc	3839	4196	4973
Compression ratio	8.3:1	9.0:1	8.0:1
Firing order	1-5-4-8-6-3-7-2	1-5-4-8-6-3-7-2	1-5-4-8-6-3-7-2
Maximum speed rpm		6000 ± 50	5500 ± 50
Engine output (SAE)kW/rpm net bhp/rpm	115/4750 155/4750	150/5700 201/5700	137/4500 184/4500
Maximum torque Nm/rpm net lb-ft./rpm	275/2750 196/2750	310/3900 228/3750	343/2000 247/2000
Crankshaft bearings	5	5	5
Valve arrangement	Overhead, 2 per cylinder	Overhead, 2 per cylinder	Overhead, 2 per cylinder
Camshaft arrangement	Single Overhead Camshaft	Single Overhead Camshaft	Single Overhead Camshaft
Oil cooling	-	-	
Cooling	Pressurized liquid cooling system with circulation pump, thermostat with bypass line	Pressurized liquid cooling system with circulation pump, thermostat with bypass line	Pressurized liquid cooling system with circulation pump, thermostat with bypass line
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 filter	Dry air filter with paper cartridge	Dry air filter with paper cartridge	Dry air filter with paper cartridge

Gasoline engines (continued)

Model	126.039	126.043	126.044
Sales designation	560 SEL (Model years 1988 - 1991)	380 SEC (Model years 1982 - 1983)	500 SEC (Model year 1984 - 1985)
Engine	117.968	116.961 116.963	117.963
Operation	4-stroke spark ignition, CIS-E continuous flow injection system with volume air flow sensor (CFI)	4-stroke spark ignition, CIS continuous flow injection system with volume air flow sensor (CFI)	4-stroke spark ignition, CIS continuous flow injection system with volume air flow sensor (CFI)
Aspiration	Natural	Natural	Natural
Number of cylinders	8	8	8
Cylinder arrangement	V8, 90°	V8, 90°	V8, 90°
Bore/stroke mm	96.50/94.80	88.00/78.90	96.50/85.00
Total effective piston displacement cc	5547	3839	4973
Compression ratio	9.0:1	8.3:1	8.0:1
Firing order	1-5-4-8-6-3-7-2	1-5-4-8-6-3-7-2	1-5-4-8-6-3-7-2
Maximum speed rpm	6000 ± 50		5500 ± 50
Engine output (SAE)kW/rpm net bhp/rpm	178/4800 238/4800	115/4750 155/4750	137/4500 184/4500
Maximum torque Nm/rpm net lb-ft./rpm	390/3500 287/3500	275/2750 196/2750	343/2000 247/2000
Crankshaft bearings	5	5	5
Valve arrangement	Overhead, 2 per cylinder	Overhead, 2 per cylinder	Overhead, 2 per cylinder
Camshaft arrangement	Single Overhead Camshaft	Single Overhead Camshaft	Single Overhead Camshaft
Oil cooling	Oil-to-air-cooler	-	
Cooling	Pressurized liquid cooling system with circulation pump, thermostat with bypass line	Pressurized liquid cooling system with circulation pump, thermostat with bypass line	Pressurized liquid cooling system with circulation pump, thermostat with bypass line
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 filter	Dry air filter with paper cartridge	Dry air filter with paper cartridge	Dry air filter with paper cartridge

00-0015 Technical data

Gasoline engines (continued)

Model	126.045
Sales designation	560 SEC (Model years 1988 - 1991)
Engine	117.968
Operation	4-stroke spark ignition, CIS-E continuous flow injection system with volume air flow sensor (CFI)
Aspiration	Natural
Number of cylinders	8
Cylinder arrangement	V8, 90°
Bore/stroke mm	96.50/94.80
Total effective piston displacement cc	5547
Compression ratio	9.0:1
Firing order	1-5-4-8-6-3-7-2
Maximum speed rpm	6000 ± 50
Engine output (SAE)kW/rpm net bhp/rpm	178/4800 238/4800
Maximum torque Nm/rpm net lb-ft./rpm	390/3500 287/3500
Crankshaft bearings	5
Valve arrangement	Overhead, 2 per cylinder
Camshaft arrangement	Single Overhead Camshaft
Oil cooling	Oil-to-air-cooler
Cooling	Pressurized liquid cooling system with circulation pump, thermostat with bypass line
Lubrication	Pressure lubrication via gear type pump
Oil filter	Full flow filter
Air filter	Dry air filter with paper cartridge

Diesel engines

Model	126.120	126.125	126.125
Sales designation	300 SD (M.Y.1982 - 1985)	300 SD (M.Y.1986) Federal version	300 SD (M.Y.1986 Calif. - 1987 50 state)
Engine	617.951	603.961	603.961
Operation	4-stroke diesel, MB prechamber design with turbocharger	4-stroke diesel, MB prechamber design with turbocharger	4-stroke diesel, MB prechamber design with turbocharger
Aspiration	Turbocharged	Turbocharged	Turbocharged
Number of cylinders	5	6	6
Cylinder arrangement	In-line, 15° inclination	In-line, 15° inclination	In-line, 15° inclination
Bore/stroke mm	90.90/92.40	87.00/84.00	87.00/84.00
Total effective piston displacement cc	2998	2996	2996
Compression ratio	21.5:1	22.0:1	22.0:1
Firing order	1-2-4-5-3	1-5-3-6-2-4	1-5-3-6-2-4
Maximum speed rpm	4900-5100	5150 ± 150	5150 ± 150
Engine output (SAE)kW/rpm net bhp/rpm	89/4350 120/4350	110/4600 148/4600	107/4600 143/4600
Maximum torque Nm/rpm net lb-ft./rpm	250/2400 170/2400	273/2400 201/2400	265/2400 195/2400
Crankshaft bearings	6	7	7
Valve arrangement	Overhead, 2 per cylinder	Overhead, 2 per cylinder	Overhead, 2 per cylinder
Camshaft arrangement	SOHC	SOHC	SOHC
Oil cooling	Oil-to-air-cooler	Oil-to-air-cooler	Oil-to-air-cooler
Cooling	Pressurized liquid cooling system with circulation pump, thermostat with bypass line	Pressurized liquid cooling system with circulation pump, thermostat with bypass line	Pressurized liquid cooling system with circulation pump, thermostat with bypass line
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 filter	Dry air filter with paper cartridge	Dry air filter with paper cartridge	Dry air filter with paper cartridge

00-0015 Technical data

Diesel engines (continued)

Model	126.134	126.135
Sales designation	350 SD (M.Y.1991)	350 SDL (M.Y.1990 - 1991)
Engine	603.971	603.971
Operation	4-stroke diesel, MB prechamber design with turbocharger	4-stroke diesel, MB prechamber design with turbocharger
Aspiration	Turbocharged	Turbocharged
Number of cylinders	6	6
Cylinder arrangement	In-line, 15° inclination	In-line, 15° inclination
Bore/stroke mm	89.00/92.40	89.00/92.40
Total effective piston displacement cc	3449	3449
Compression ratio	22.0:1	22.0:1
Firing order	1-5-3-6-2-4	1-5-3-6-2-4
Maximum speed rpm	4250	4250
Engine output (SAE)kW/rpm net bhp/rpm	100/4000 133/4000	100/4000 133/4000
Maximum torque Nm/rpm net lb-ft./rpm	310/2000 228/2000	310/2000 228/2000
Crankshaft bearings	7	7
Valve arrangement	Overhead, 2 per cylinder	Overhead, 2 per cylinder
Camshaft arrangement	SOHC	SOHC
Oil cooling	Oil-to-air-cooler	Oil-to-air-cooler
Cooling	Pressurized liquid cooling system with circulation pump, thermostat with bypass line	Pressurized liquid cooling system with circulation pump, thermostat with bypass line
Lubrication	Pressure lubrication via gear type pump	Pressure lubrication via gear type pump
Oil filter	Full flow filter	Full flow filter
Air filter	Dry air filter with paper cartridge	Dry air filter with paper cartridge

Model	126.024	126.025
Sales designation	300 SE (Model years 1988 - 1991)	300 SEL (Model years 1988 - 1991)
Engine	103.981	103.981

Dimensions

Vehicle length	mm	5145	5285
Vehicle width	mm	1820	1820
Vehicle height	curb weight mm	1441	1441
Wheel base	mm	2935	3075
Track width	front mm	1555	1555
Track width	rear mm	1527	1527
Max. Permissible wheel lock on inner wheel		43°	43°
Turning circle, min. dia.	m	12.4	12.4

Weights

Vehicle weight, empty	kg	1690	1710
Gross vehicle weight	kg	2160	2190
Gross axle weight	front kg	1020	1030
Gross axle weight	rear kg	1040	1160

Electrical system

Battery	Voltage Capacity	12 V 62 Ah	12 V 62 Ah
Starter	Bosch	12 V 1.7 KW	12 V 1.7 KW
Generator	Bosch	14 V 70 A	14 V 70 A

00-0015 Technical data

Model	126.024	126.025
Sales designation	300 SE (Model years 1988 - 1991)	300 SEL (Model years 1988 - 1991)
Engine	103.981	103.981

Filling capacities

Fuel tank/reserve	approx. l	90/12.5	90/12.5
Engine oil initial filling	approx. l	6.5	6.5
During oil and filter change	approx. l	6.0	6.0
Marks on dipstick	max./min. approx. l	5.7/3.7	5.7/3.7
Air-to-oil cooler	approx. l	-	-
Cooling system with heater	approx. l	10.0	10.0
Brake system	approx. l	0.53	0.53
Automatic transmission initial filling	approx. l	7.3	7.3
Automatic transmission fluid change	approx. l	6.2	6.2
Level control	approx. l	-	-
Rear axle hypoid gear oil	approx. l	1.1	1.1
Power steering	approx. l	1.3	1.3

Model	126.032	126.033
Sales designation	380 SE (Model years 1984 - 1985)	380 SEL (Model years 1981 - 1983)
Engine	116.963	116.961 116.963

Dimensions

Vehicle length	mm	5154	5285
Vehicle width	mm	1820	1820
Vehicle height	curb weight mm	1430	1440
Wheel base	mm	2935	3075
Track width	front mm	1545	1545
Track width	rear mm	1517	1517
Max. Permissible wheel lock on inner wheel		43°	43°
Turning circle, min. dia.	m	11.8	12.36

Weights

Vehicle weight, empty	kg	1670	1715
Gross vehicle weight	kg	2130	2165
Gross axle weight	front kg	1010	1015
Gross axle weight	rear kg	1120	1150

Electrical system

Battery	Voltage Capacity	12 V 66 Ah	12 V 66 Ah
Starter	Bosch	GF 12 V 1.5 KW	GF 12 V 1.5 KW
Generator	Bosch	N1 14 V 80 A 19	K1 14 V 70 A20

00-0015 Technical data

Model	126.032	126.033
Sales designation	380 SF (Model years 1984 - 1985)	380 SEL (Model years 1981 - 1983)
Engine	116.963	116.961 116.963

Filling capacities

Fuel tank/reserve	approx. l	90/12.5	90/12.5
Engine oil initial filling	approx. l	8.0	8.0
During oil and filter change	approx. l	8.5	8.5
Marks on dipstick	max./min. approx. l	7.5/5.5	7.5/5.5
Air-to-oil cooler	approx. l	-	-
Cooling system with heater	approx. l	12.5	12.5
Brake system	approx. l	0.53	0.53
Automatic transmission initial filling	approx. l	7.3	7.3
Automatic transmission fluid change	approx. l	6.2	6.2
Level control	approx. l		
Rear axle hypoid gear oil	approx. l	1.3	1.3
Power steering	approx. l	1.2	1.2

Model	126.035	126.037
Sales designation	420 SEL (Model years 1986 - 1991)	500 SEL (Model years 1984 - 1985)
Engine	116.965	117.963

Dimensions

Vehicle length	mm	5285	5285
Vehicle width	mm	1820	1820
Vehicle height	curb weight mm	1441	1440
Wheel base	mm	3075	3070
Track width	front mm	1555	1545
Track width	rear mm	1527	1517
Max. Permissible wheel lock on inner wheel		43°	43°
Turning circle, min. dia.	m	12.4	12.26

Weights

Vehicle weight, empty	kg	1745	1755
Gross vehicle weight	kg	2215	2200
Gross axle weight	front kg	1060	1060
Gross axle weight	rear kg	1155	1140

Electrical system

Battery	Voltage Capacity	12 V 66Ah	12 V 66Ah
Starter	Bosch	DW 12 V 1.5 KW	GF 12 V 1.5 KW
Generator	Bosch	14 V 80 A	N1-14 V 80 A 19

00-0015 Technical data

Model	126.035	126.037
Sales designation	420 SEL (Model years 1986 - 1991)	500 SEL (Model years 1984 - 1985)
Engine	116.965	117.963

Filling capacities

Fuel tank/reserve	approx. l	90/12.5	90/12.5
Engine oil initial filling	approx. l	8.5	8.5
During oil and filter change	approx. l	8.0	8.0
Marks on dipstick	max./min. approx. l	7.5/5.5	7.5/5.05
Air-to-oil cooler	approx. l	-	-
Cooling system with heater	approx. l	13.0	13.0
Brake system	approx. l	0.53	0.53
Automatic transmission initial filling	approx. l	8.6	8.6
Automatic transmission fluid change	approx. l	7.7	7.7
Level control	approx. l	-	-
Rear axle hypoid gear oil	approx. l	1.3	1.3
Power steering	approx. l	1.2	1.2

Model	126.039	126.043
Sales designation	560 SEL (Model years 1986 - 1991)	380 SEC (Model years 1982 - 1983)
Engine	117.968	116.963

Dimensions

Vehicle length	mm	5285	5060
Vehicle width	mm	1820	1828
Vehicle height	curb weight mm	1431	1406
Wheel base	mm	3075	2850
Track width	front mm	1555	1545
Track width	rear mm	1527	1517
Max. Permissible wheel lock on inner wheel		43°	43°
Turning circle, min. dia.	m	12.4	11.62

Weights

Vehicle weight, empty	kg	1870	1705
Gross vehicle weight	kg	2305	2155
Gross axle weight	front kg	1125	1000
Gross axle weight	rear kg	1180	1155

Electrical system

Battery	Voltage Capacity	12 V 92Ah	12 V 66 Ah
Starter	Bosch	DW 12 V 1.5 KW	GF 12 V 1.5 KW
Generator	Bosch	14 V 80 A	K1 14 V 70 A 20

00-0015 Technical data

Model	126.039	126.043
Sales designation	560 SEL (Model years 1986 - 1991)	380 SEC (Model years 1982 - 1983)
Engine	117.968	116.963

Filling capacities

Fuel tank/reserve	approx. l	90/12.5	90/12.5
Engine oil initial filling	approx. l	8.5	8.0
During oil and filter change	approx. l	8.0	8.5
Marks on dipstick	max./min. approx. l	7.5/5.5	7.5/5.5
Air-to-oil cooler	approx. l	-	-
Cooling system with heater	approx. l	13.0	12.5
Brake system	approx. l	0.53	0.53
Automatic transmission initial filling	approx. l	8.6	7.3
Automatic transmission fluid change	approx. l	7.7	6.2
Level control	approx. l	3.5	-
Rear axle hypoid gear oil	approx. l	1.3	1.3
Power steering	approx. l	1.2	1.2

Model	126.044	126.045
Sales designation	500 SEC (Model years 1984 - 1985)	560 SEC (Model years 1986 - 1991)
Engine	117.963	117.968

Dimensions

Vehicle length	mm	5060	5060
Vehicle width	mm	1828	1828
Vehicle height	curb weight mm	1406	1412
Wheel base	mm	2845	3070
Track width	front mm	1545	1555
Track width	rear mm	1517	1527
Max. Permissible wheel lock on inner wheel		43°	43°
Turning circle, min. dia.	m	11.62	11.6

Weights

Vehicle weight, empty	kg	1700	1795
Gross vehicle weight	kg	2075	2160
Gross axle weight	front kg	1010	1075
Gross axle weight	rear kg	1065	1085

Electrical system

Battery	Voltage Capacity	12 V 66Ah	12 V 92Ah
Starter	Bosch	GF 12 V 1.5 KW	DW 12 V 1.5 KW
Generator	Bosch	N1-14 V 80 A 19	14 V 80 A

00-0015 Technical data

Model	126.044	126.045
Sales designation	500 SEC (Model years 1984 - 1985)	560 SEC (Model years 1986 - 1991)
Engine	117.963	117.968

Filling capacities

Fuel tank/reserve	approx. l	90/12.5	90/12.5
Engine oil initial filling	approx. l	8.5	8.5
During oil and filter change	approx. l	8.0	8.0
Marks on dipstick	max./min. approx. l	7.5/5.5	7.5/5.5
Air-to-oil cooler	approx. l	-	-
Cooling system with heater	approx. l	13.0	13.0
Brake system	approx. l	0.53	0.53
Automatic transmission initial filling	approx. l	8.6	8.6
Automatic transmission fluid change	approx. l	7.7	7.7
Level control	approx. l	-	3.5
Rear axle hypoid gear oil	approx. l	1.3	1.3
Power steering	approx. l	1.2	1.2

Model	126.120	126.125
Sales designation	300 SD (Model years 1982-1985)	300 SD (Model years 1986 - 1987)
Engine	617.951	603.961

Dimensions

Vehicle length	mm	5145	5285	
Vehicle width	mm	1820	1820	
Vehicle height	curb weight	mm	1430	1441
Wheel base	mm	2935	3075	
Track width	front	mm	1545	1555
Track width	rear	mm	1517	1527
Max. Permissible wheel lock on inner wheel		43°	43°	
Turning circle, min. dia.	m	11.9	12.4	

Weights

Vehicle weight, empty	kg	1715	1740	
Gross vehicle weight	kg	2165	2210	
Gross axle weight	front	kg	1055	1065
Gross axle weight	rear	kg	1110	1145

Electrical system

Battery	Voltage Capacity	12 V 90Ah	12 V 92Ah
Starter	Bosch	JF 12 V 2.3 KW	DW 12 V 1.5 KW
Generator	Bosch	K1 14 V 55 A 20	14 V 80 A

00-0015 Technical data

Model	126.120	126.125
Sales designation	300 SD (Model years 1982-1985)	300 SD (Model years 1986 - 1987)
Engine	617.951	603.961

Filling capacities

Fuel tank/reserve	approx. l	77/12.5	90/12.5
Engine oil initial filling	approx. l	8.5	9.2
During oil and filter change	approx. l	7.5	8.0
Marks on dipstick	max./min. approx. l	6.0/4.5	6.5/4.5
Air-to-oil cooler	approx. l	0.7	0.65
Cooling system with heater	approx. l	12.5	12.5
Brake system	approx. l	0.53	0.53
Automatic transmission initial filling	approx. l	7.3	7.3
Automatic transmission fluid change	approx. l	6.2	6.0
Level control	approx. l	-	-
Rear axle hypoid gear oil	approx. l	1.0	1.1
Power steering	approx. l	1.2	1.2

Model	126.134	126.135
Sales designation	350 SD Model year 1991	350 SDL Model years 1990 - 1991
Engine	603.970	603.970

Dimensions

Vehicle length	mm	5145	5285
Vehicle width	mm	1820	1820
Vehicle height	curb weight mm	1438	1441
Wheel base	mm	2935	3075
Track width	front mm	1562	1562
Track width	rear mm	1534	1534
Max. Permissible wheel lock on inner wheel		43°	43°
Turning circle, min. dia.	m	11.9	12.4

Weights

Vehicle weight, empty	kg	1770	1790
Gross vehicle weight	kg	2240	2270
Gross axle weight	front kg	1090	1110
Gross axle weight	rear kg	1150	1160

Electrical system

Battery	Voltage Capacity	12 V Ah	12 V Ah
Starter	Bosch	12 V KW	12 V KW
Generator	Bosch	14 V 70 A	14 V 70 A

00-0015 Technical data

Model	126.134	126.135
Sales designation	350 SD Model year 1991	350 SDL Model years 1990 - 1991
Engine	603.970	603.970

Filling capacities

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	7.5	7.5
Marks on dipstick	max./min. approx. l	6.5/4.5	6.5/4.5
Air-to-oil cooler	approx. l		
Cooling system with heater	approx. l	10.0	10.0
Brake system	approx. l	0.53	0.53
Automatic transmission initial filling	approx. l	7.3	7.3
Automatic transmission fluid change	approx. l	6.2	6.2
Level control	approx. l	-	-
Rear axle hypoid gear oil	approx. l	1.1	1.1
Power steering	approx. l	1.3	1.3