

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	103.981
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 188/4400
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, 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
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 177/5700	132/5700 177/5700
Maximum torque Nm/rpm net lb-ft./rpm	255/4400 188/4400	255/4400 188/4400
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	12 V	12 V	12 V	12 V	12 V
Capacity	62 Ah	62 Ah	62 Ah	62 Ah	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