

MERCEDES-BENZ600 SEL/S600 CAT (140)

1991 to 1996

Engine & Cooling

Fuel

Ignition

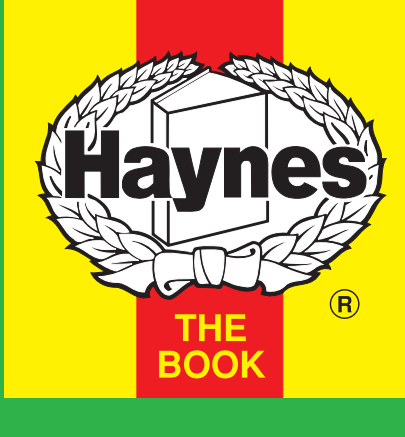
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

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Type		120.980 304kW
Capacity (cm³) / number of cylinders		5987 / 12
Compression ratio / pressure	bar	10.0 / ≥12.0
Oil pressure	bar	0.3 [3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-12-5-8-3-10-6-7-2-11-4-9
No 1 cylinder position		—
Thermostat opening temperature	°C	—
Radiator cap pressure	bar	1.4±0.1

Fuel system

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Idle speed - manual [auto]	rpm	600 to 750 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	≥14.5
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		LH-Jetronic
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	3.7 to 4.2
Octane rating	RON	95[U]

Ignition system

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Type		Computerized
Ignition coil		Bosch
Primary resistance	ohms	0.3 to 0.6
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	6 to 10 BTDC @ 600 to 750 N/A
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		—
Type		—
Electrode gap	mm	—

Electrical system

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Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm		13.0 to 14.5 / 120 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	—
Rear (min. friction material thickness)	mm	—

Tyres		
Saloon	Size	235/60x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—
Castor		—
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settings

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Cylinder head - stage 1	Nm	55
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	—
Main bearings	Nm	—
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	—
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	—

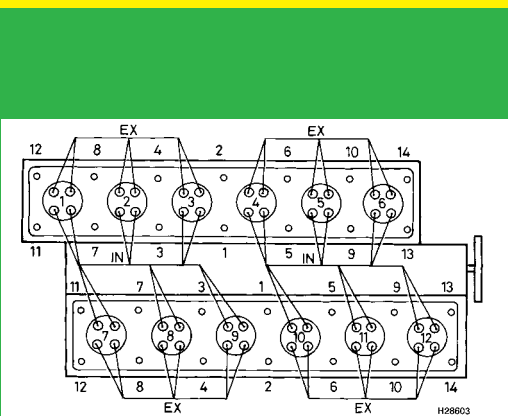
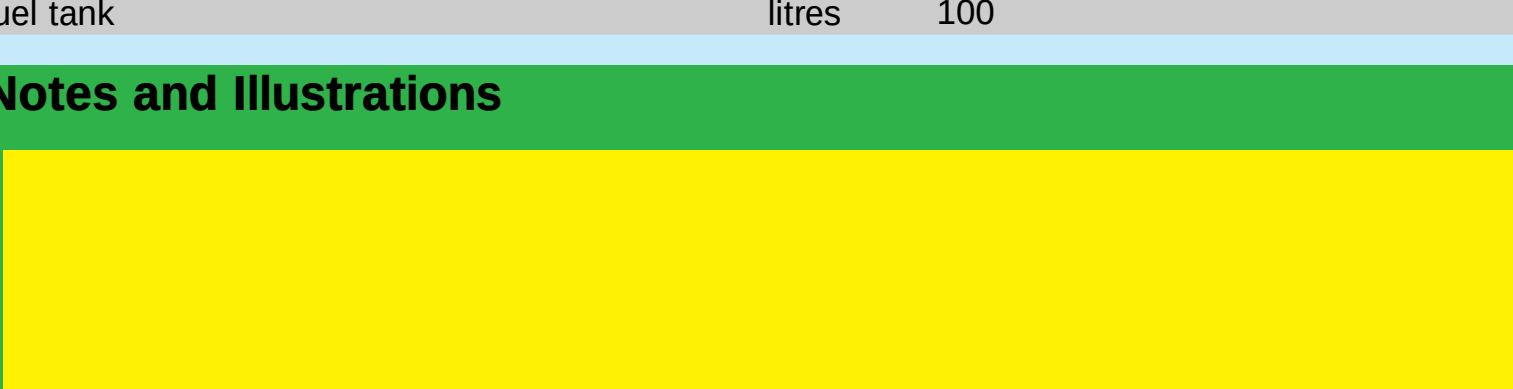
Capacities

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Engine oil & filter	litres	10.0
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	7.7
Final drive	litres	1.3
Cooling system	litres	20.0
Fuel tank	litres	100

Notes and Illustrations



5987 cm³, V12 48V