

Engine & Cooling

Fuel

Ignition

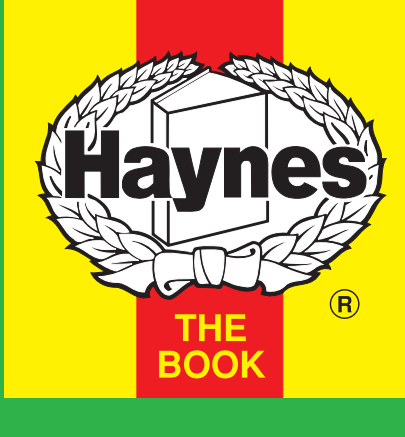
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system			SL600 (129.076)	1993 to 1997
Type			120.981 DOHC 48V 290kW	
Capacity (cm³) / number of cylinders			5987 / 12	
Compression ratio / pressure		bar	10.0 / 13.5 to 15.5	
Oil pressure		bar	0.3 [3.0 @ 3000rpm]	
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			FR	
Thermostat opening temperature		°C	87±2	
Radiator cap pressure		bar	1.40±0.10	
Fuel system			SL600 (129.076)	1993 to 1997
Idle speed - manual [auto]		rpm	600 to 750 N/A	
Fast idle speed - manual [auto]		rpm	—	
CO @ idle speed [3000 rpm] - see page VI		%	≤0.3	
HC @ idle speed [3000 rpm] - see page VI		ppm	≤200	
CO2 @ idle speed [3000 rpm] - see page VI		%	—	
O2 @ idle speed [3000 rpm] - see page VI		%	—	
Carburettor / fuel injection			_ Bosch	
Type / ref			LH-Jetronic	
Main jet / needle			—	
Injection pressure		bar	3.7 to 4.2	
Pump pressure		bar	—	
Octane rating		RON	95[U]	
Ignition system			SL600 (129.076)	1993 to 1997
Type			EZL	
Ignition coil			Bosch	
Primary resistance		ohms	0.3 to 0.6	
Ballast resistor		ohms	—	
Voltage - Tmnl 15(+) to earth		V	Battery	
Distributor			—	
Points gap (air gap)		mm	—	
Dwell angle		° (%)	—	
Condenser capacity		µF	—	
Rotation			—	
Ignition timing - basic [static		° Crankshaft @ rpm	Computer control N/A	
V = Vacuum NV = No Vacuum				
Total ignition advance		° Crankshaft @ rpm	Computer control	
		° 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			Bosch/Champion	
Type			F8DCO / C10YCC	
Electrode gap		mm	0.80	
Electrical system			SL600 (129.076)	1993 to 1997
Battery		V / CC / RC	12 / 100Ah	
Alternator voltage / full load current / engine rpm			13.0 to 14.5 / 120 / 1950	
Starter motor current / voltage - cranking		A / V	160/10.5	
- locked		A / V	—	
Running gear			SL600 (129.076)	1993 to 1997
Brakes -				
Front (min. friction material thickness)		mm	2.5	
Rear (min. friction material thickness)		mm	2.5	
Tyres				
Saloon		Size	225/55x16	
Estate / Van		Size	—	
Pressure - front / rear - Saloon		bar	2.5 / 2.7	
- Estate / Van		bar	—	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	[+20'±10']	
Camber			-1°±10'	
Castor			10°35'±30'	
King pin inclination			—	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	[+25'±5']	
Camber			—	
Torque wrench settings			SL600 (129.076)	1993 to 1997
Cylinder head - stage 1		Nm	55	
- stage 2		Nm	+ 90°	
Cylinder head - stage 3		Nm	+ 90°	
- stage 4		Nm	—	
Big-end bearings		Nm	45, + 90 to 100°	
Main bearings		Nm	WSM	
Clutch cover		Nm	25	
Flywheel [driveplate]		Nm	35, + 90 to 100°	
Front hubs		Nm	WSM	
Rear hubs		Nm	200 to 240	
Wheel nuts / bolts		Nm	110	
Spark plugs		Nm	20	
Capacities			SL600 (129.076)	1993 to 1997
Engine oil & filter		litres	10.0	
Gearbox - 4-speed [5-speed]		litres	—	
Automatic transmission - refill		litres	7.7	
Final drive		litres	1.4	
Cooling system		litres	20.0	
Fuel tank		litres	80	

Notes and Illustrations

