

Engine & Cooling

Fuel

Ignition

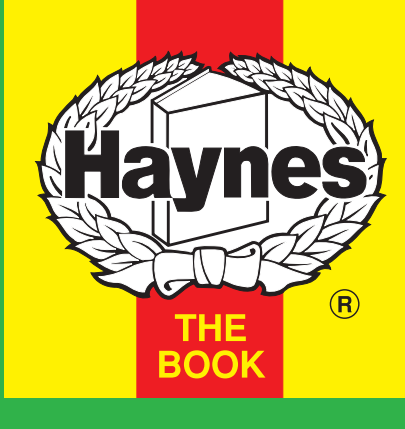
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

Daimler Limousine

1980 to 1991

Type		XK DOHC 12V
Capacity (cm³) / number of cylinders		4235 / 6
Compression ratio / pressure	bar	7.5 / ≥9.0
Oil pressure	bar	1.2
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30 to 0.36
Valve clearance - exhaust	mm	0.30 to 0.36
Firing order		1-5-3-6-2-4
No 1 cylinder position		R
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.0

Fuel system

Daimler Limousine

1980 to 1991

Idle speed - manual [auto]	rpm	750±25
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤3.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		SU
Type / ref		2x HIF44 FZX1459
Main jet / needle		— / BFV
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	92[E 95 RON]

Ignition system

Daimler Limousine

1980 to 1991

Type		Contact breaker - CIS
Ignition coil		Lucas 16C6
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Lucas
Points gap (air gap)	mm	0.36 to 0.41
Dwell angle	° (%)	33±5
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1400
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	24 to 28 @ 5600
Vacuum range check	mbar	237 to 475
Maximum vacuum advance	° Crankshaft	16
Spark plugs		Unipart/Champion
Type		GSP141 / RN11YCC
Electrode gap	mm	0.80

Electrical system

Daimler Limousine

1980 to 1991

Battery	V / CC / RC	12 / 66 or 52Ah
Alternator voltage / full load current / engine rpm		13.8 to 15.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Daimler Limousine

1980 to 1991

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

Tyres		
Saloon	Size	205x15: 235/70x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.9 / 2.0¹
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +3.0
Camber		+30'±30'
Castor		0±30'
King pin inclination		+3°45'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±0.8
Camber		-45'±15'

Torque wrench settings

Daimler Limousine

1980 to 1991

Cylinder head - stage 1	Nm	72²
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	50
Main bearings	Nm	95
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	88
Front hubs	Nm	WSM
Rear hubs	Nm	136 to 163
Wheel nuts / bolts	Nm	88
Spark plugs	Nm	—

Capacities

Daimler Limousine

1980 to 1991

Engine oil & filter	litres	8.2
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	9.1
Final drive	litres	1.6
Cooling system	litres	14.5
Fuel tank	litres	2x 45.5

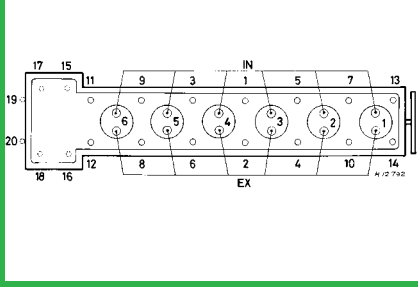
Notes and Illustrations

¹235/70x15: 1.8 / 1.9

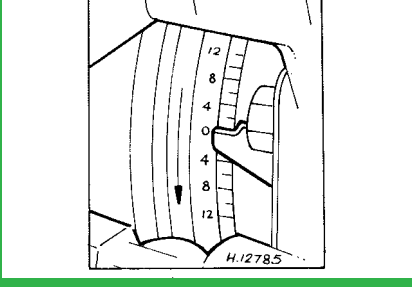
²Bolts 15 to 20: 25

1: Idle speed

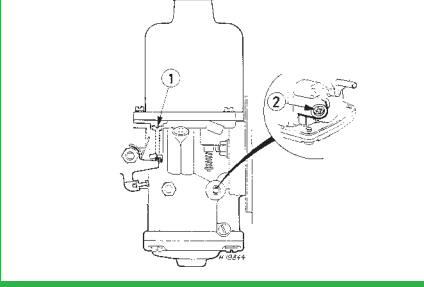
2: CO / Mixture



4235 cm³



4235 cm³



SU HIF44