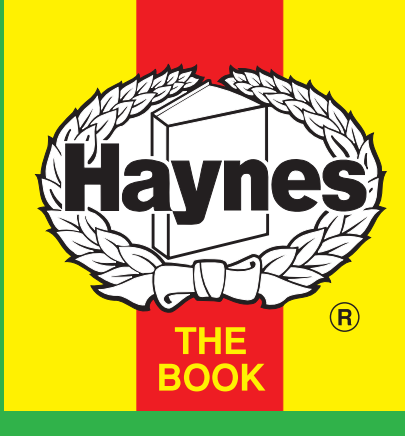


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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MENU

HELP

Engine and cooling system25 V6i & Limousine (B298)1984 to 1990

Type		Z7V-A7-08 [AT: Z7V-B7-09]
Capacity (cm³) / number of cylinders		2664 / 6
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	2.2 [4.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10
Valve clearance - exhaust	mm	0.25
Firing order		1-6-3-5-2-4
No 1 cylinder position		RL
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.8 to 1.2

Fuel system25 V6i & Limousine (B298)1984 to 1990

Idle speed - manual [auto]	rpm	900±50 [700±25]
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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		Bosch
Type / ref		K-Jetronic
Main jet / needle		_
Injection pressure	bar	3.5 to 4.1¹
Pump pressure	bar	5.0²
Octane rating	RON	98[E 98 RON]

Ignition system25 V6i & Limousine (B298)1984 to 1990

Type		Electronic
Ignition coil		Ducellier
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Renix
Points gap (air gap)	mm	[1.00±0.50]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	R316-D78
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200
	° Crankshaft @ rpm	10 to 14 @ 2000
	° Crankshaft @ rpm	26 to 30 @ 4860
Vacuum range check	mbar	131 to 327
Maximum vacuum advance	° Crankshaft	17 to 21
Spark plugs		Champion
Type		RBN9GY
Electrode gap	mm	0.55 to 0.65

Electrical system25 V6i & Limousine (B298)1984 to 1990

Battery	V / CC / RC	12 / 255 / 85
Alternator voltage / full load current / engine rpm		13.5 to 14.8 / 90, 105 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	600 / _

Running gear25 V6i & Limousine (B298)1984 to 1990

Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	6.0 with backing

Tyres		
Saloon	Size	195/60x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.5 / 2.3
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-3.0±1.0
Camber		0±30'
Castor		+2° PAS: +4°
King pin inclination		+12°30'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0³
Camber		-1°15'±30'

Torque wrench settings25 V6i & Limousine (B298)1984 to 1990

Cylinder head - stage 1	Nm	60, then slacken bolts
- stage 2	Nm	20 + 115°
Cylinder head - stage 3	Nm	Retightening: slacken bolts
- stage 4	Nm	20 + 115°
Big-end bearings	Nm	45
Main bearings	Nm	30 + 75°
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	45 [65 to 70]
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	_

Capacities25 V6i & Limousine (B298)1984 to 1990

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	2.5
Final drive	litres	AT: 1.6
Cooling system	litres	9.5
Fuel tank	litres	72

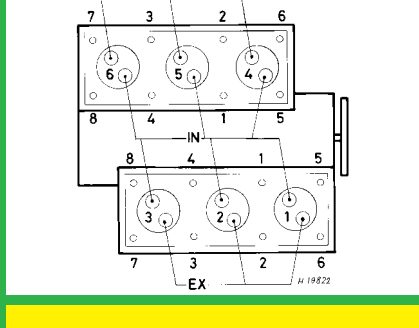
Notes and Illustrations

¹86 ►: 3.9 to 4.5

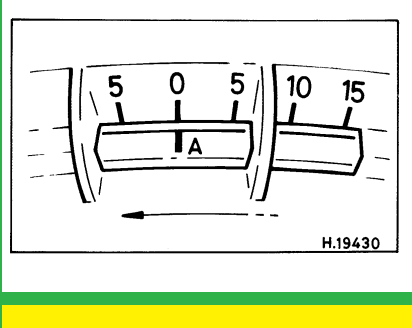
²1986 ►: 5.3

³1986 ►: +1.0±1.0

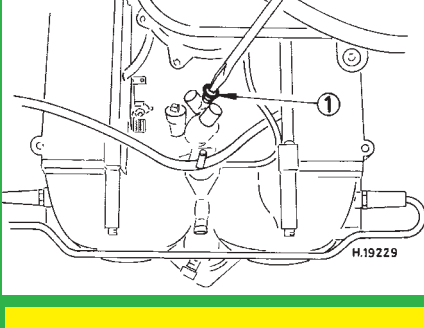
1: Idle speed 2: CO / Mixture



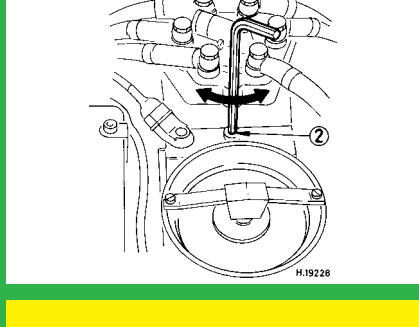
2664 cm³



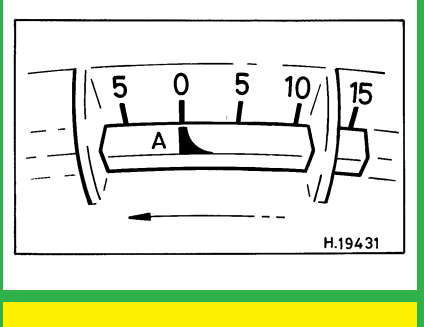
2664 cm³



K-Jetronic



K-Jetronic



2664 cm³, alternative