

Engine & Cooling

Fuel

Ignition

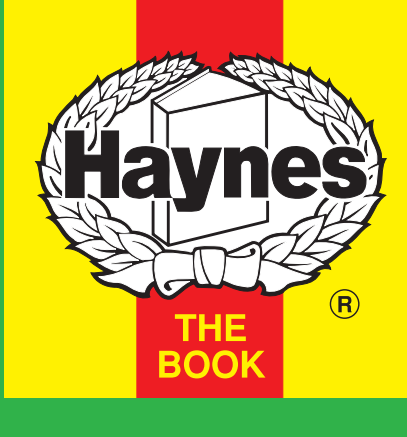
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system25 V6 2.9i CAT (B29A)1990 to 1991

Type		Z7W-7-02
Capacity (cm ³) / number of cylinders		2849 / 6
Compression ratio / pressure	bar	8.8 / _
Oil pressure	bar	1.0 [4.0]
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 V6 2.9i CAT (B29A)1990 to 1991

Idle speed - manual [auto]	rpm	900±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤1.0
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		Bosch
Type / ref		K-Jetronic
Main jet / needle		_
Injection pressure	bar	3.9 to 4.5
Pump pressure	bar	5.3
Octane rating	RON	91[U]

Ignition system25 V6 2.9i CAT (B29A)1990 to 1991

Type		Electronic
Ignition coil		Renix
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Renix
Points gap (air gap)	mm	_
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	0237 402017
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	-1 @ 1030
	° Crankshaft @ rpm	12 to 16 @ 3000
	° Crankshaft @ rpm	20 to 24 @ 4140
Vacuum range check	mbar	233 to 459
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		Bosch/Champion
Type		HR6DC / S7YCC
Electrode gap	mm	0.55 to 0.65

Electrical system25 V6 2.9i CAT (B29A)1990 to 1991

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

Running gear25 V6 2.9i CAT (B29A)1990 to 1991

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		+4°
King pin inclination		+12°30'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		-1°15'±30'

Torque wrench settings25 V6 2.9i CAT (B29A)1990 to 1991

Cylinder head - stage 1	Nm	60, then slacken bolts
- stage 2	Nm	20 + 127°
Cylinder head - stage 3	Nm	Warm up engine, then cool
- stage 4	Nm	+ 45°
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	_

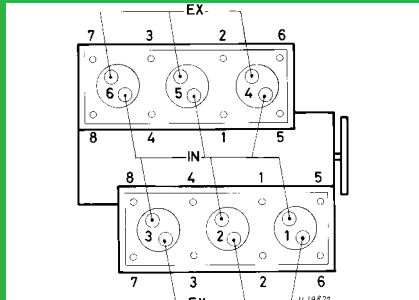
Capacities25 V6 2.9i CAT (B29A)1990 to 1991

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	4.0
Final drive	litres	AT: 0.8
Cooling system	litres	9.5
Fuel tank	litres	72

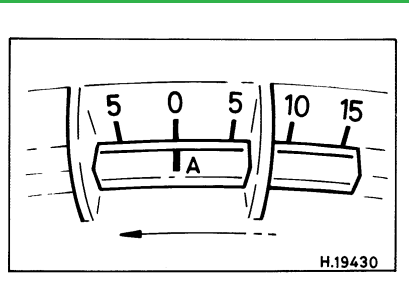
Notes and Illustrations



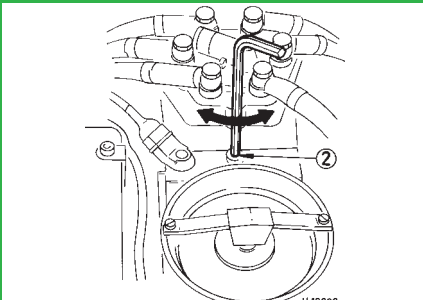
1: Idle speed 2: CO / Mixture



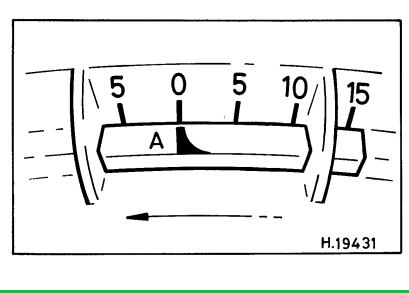
2849 cm³



2849 cm³, MT



K-Jetronic



2849 cm³, AT