

Engine & Cooling

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Engine and cooling system

25 V6 2.9i CAT (B29F)

1991 to 1992

Type		Z7W-7-06 [Z7W-7-07] 114kW
Capacity (cm³) / number of cylinders		2849 / 6
Compression ratio / pressure	bar	9.5 / _
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 system

25 V6 2.9i CAT (B29F)

1991 to 1992

Idle speed - manual [auto]	rpm	800±50 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	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Renix
Type / ref		Bendix electronic MPI
Main jet / needle		_
Injection pressure	bar	2.5±0.2
Pump pressure	bar	3.0±0.2
Octane rating	RON	95[U]

Ignition system

25 V6 2.9i CAT (B29F)

1991 to 1992

Type		Computerized
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		_
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control
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		Eyquem
Type		C72LJS
Electrode gap	mm	0.80±0.05

Electrical system

25 V6 2.9i CAT (B29F)

1991 to 1992

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 gear

25 V6 2.9i CAT (B29F)

1991 to 1992

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°±30'
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 settings

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1991 to 1992

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	_

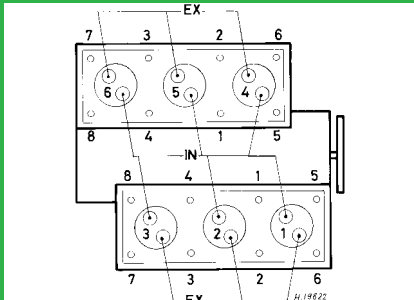
Capacities

25 V6 2.9i CAT (B29F)

1991 to 1992

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	4.0
Final drive	litres	AT: 0.8
Cooling system	litres	9.5
Fuel tank	litres	72

Notes and Illustrations



2849 cm³