

Engine & Cooling

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Automotive Technical
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Engine and cooling system

25 Turbo CAT (B29G)

1991 to 1993

Type		Z7U-7-00
Capacity (cm³) / number of cylinders		2458 / 6
Compression ratio / pressure	bar	8.0 / _
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	86
Radiator cap pressure	bar	0.8 to 1.2

Fuel system

25 Turbo CAT (B29G)

1991 to 1993

Idle speed - manual [auto]	rpm	750±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	≤300
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Renix
Type / ref		Bendix R electronic
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 Turbo CAT (B29G)

1991 to 1993

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		Clockwise
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		805LJSP
Electrode gap	mm	0.65±0.05

Electrical system

25 Turbo CAT (B29G)

1991 to 1993

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 gear

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1991 to 1993

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

Tyres		
Saloon	Size	205/55x16
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 settings

25 Turbo CAT (B29G)

1991 to 1993

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	+ 25°
Big-end bearings	Nm	45
Main bearings	Nm	30 + 75°
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	45
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	_

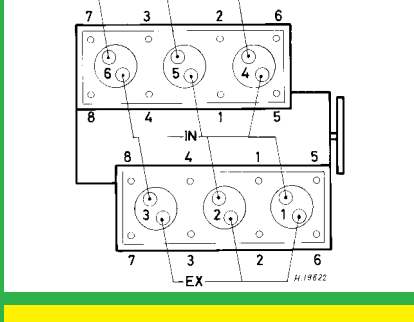
Capacities

25 Turbo CAT (B29G)

1991 to 1993

Engine oil & filter	litres	8.0
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	9.7
Fuel tank	litres	72

Notes and Illustrations



2458 cm³