

Engine & Cooling

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Automotive Technical
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Engine and cooling system

164 Turbo & CAT

1990 to 1995

Type		064.76
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	8.0±0.1 / _
Oil pressure	bar	[4.4 to 4.6]
Oil temperature	°C	90
Valve clearance - inlet	mm	0.35±0.04
Valve clearance - exhaust	mm	0.40±0.04
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	81 to 85
Radiator cap pressure	bar	0.9 to 1.1

Fuel system

164 Turbo & CAT

1990 to 1995

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5. CAT: ≤0.2
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200. CAT: ≤70
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LE-Jetronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	2.8 to 3.2
Octane rating	RON	97[E 95 RON] ¹

Ignition system

164 Turbo & CAT

1990 to 1995

Type		Microplex
Ignition coil		Marelli AEI 500B
Primary resistance	ohms	0.310 to 0.378
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	20 BTDC @ 750±50
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	21 BTDC @ 5500
	° 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		Champion
Type		RN7YCC
Electrode gap	mm	0.60 to 0.70

Electrical system

164 Turbo & CAT

1990 to 1995

Battery	V / CC / RC	12 / 55Ah
Alternator voltage / full load current / engine rpm		13.0 to 14.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	315 / 9.0
- locked	A / V	750 / 4.0

Running gear

164 Turbo & CAT

1990 to 1995

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	195/60x15: 205/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		-1°40'±20' U/L
Castor		+2°30'±20' U/L
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+4.0±1.0 U/L
Camber		-1°±20' U/L

Torque wrench settings

164 Turbo & CAT

1990 to 1995

Cylinder head - stage 1	Nm	20 oiled
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90° ²
Big-end bearings	Nm	25 + 50°
Main bearings	Nm	20 + 120° ³
Clutch cover	Nm	20 to 25
Flywheel [driveplate]	Nm	142
Front hubs	Nm	356 to 400
Rear hubs	Nm	250 to 300
Wheel nuts / bolts	Nm	95 to 105
Spark plugs	Nm	37

Capacities

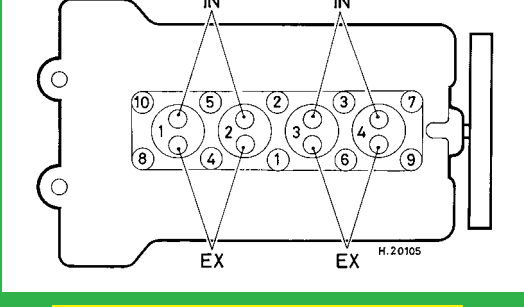
164 Turbo & CAT

1990 to 1995

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	10.0
Fuel tank	litres	70

Notes and Illustrations

¹CAT: 95 [U]
²1000km: retighten
³Centre bearing only. Others: 20 + 80°



1995 cm³, 8V