

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system		164 V6 Cloverleaf CAT	1990 to 1993
Type		064.301 SOHC 145kW	
Capacity (cm³) / number of cylinders		2959 / 6	
Compression ratio / pressure	bar	10.0 / _	
Oil pressure	bar	[3.9 to 5.9]	
Oil temperature	°C	90	
Valve clearance - inlet	mm	0.48 to 0.50	
Valve clearance - exhaust	mm	0.23 to 0.25	
Firing order		1-4-2-5-3-6	
No 1 cylinder position		FR	
Thermostat opening temperature	°C	87±2	
Radiator cap pressure	bar	0.90 to 1.10	
Fuel system		164 V6 Cloverleaf CAT	1990 to 1993
Idle speed - manual [auto]	rpm	700 to 800	
Fast idle speed - manual [auto]	rpm	_	
CO @ idle speed [3000 rpm] - see page VI	%	≤0.2 Ex	
HC @ idle speed [3000 rpm] - see page VI	ppm	≤70 Ex	
CO2 @ idle speed [3000 rpm] - see page VI	%	_	
O2 @ idle speed [3000 rpm] - see page VI	%	_	
Carburettor / fuel injection		Bosch	
Type / ref		ML4.1-Motronic	
Main jet / needle		_	
Injection pressure	bar	2.8 to 3.2	
Pump pressure	bar	2.8 to 3.2	
Octane rating	RON	95[U]	
Ignition system		164 V6 Cloverleaf CAT	1990 to 1993
Type		Motronic	
Ignition coil		Bosch	
Primary resistance	ohms	0.45 to 0.55	
Ballast resistor	ohms	_	
Voltage - Tmnl 15(+) to earth	V	_	
Distributor		Bosch	
Points gap (air gap)	mm	_	
Dwell angle	° (%)	Computer control	
Condenser capacity	µF	_	
Rotation		_	
Ignition timing - basic [static	° Crankshaft @ rpm	7±1 BTDC @ idle N/A	
V = Vacuum NV = No Vacuum		_	
Total ignition advance	° Crankshaft @ rpm	Computer control	
	° 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		NGK	
Type		PGR6A	
Electrode gap	mm	0.60	
Electrical system		164 V6 Cloverleaf CAT	1990 to 1993
Battery	V / CC / RC	12 / 60Ah	
Alternator voltage / full load current / engine rpm		13.0 to 14.0 /70,85,120 / 3000	
Starter motor current / voltage - cranking	A / V	_	
- locked	A / V	_	
Running gear		164 V6 Cloverleaf CAT	1990 to 1993
Brakes -			
Front (min. friction material thickness)	mm	2.0	
Rear (min. friction material thickness)	mm	2.0	
Tyres			
Saloon	Size	195/65x15: 205/55x16	
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°37'±20' U/L	
Castor		+2°17'±20' U/L	
King pin inclination		_	
Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (-)	mm [°]	+5.0±1.0 U/L	
Camber		-1°±20' U/L	
Torque wrench settings		164 V6 Cloverleaf CAT	1990 to 1993
Cylinder head - stage 1	Nm	88 to 98 oiled	
- stage 2	Nm	98 to 108	
Cylinder head - stage 3	Nm	1000km: - 360°	
- stage 4	Nm	Oil, then 98 to 108	
Big-end bearings	Nm	53 to 59 oiled	
Main bearings	Nm	84 to 93 oiled	
Clutch cover	Nm	20 to 25	
Flywheel [driveplate]	Nm	113, LkC	
Front hubs	Nm	356 to 400	
Rear hubs	Nm	250 to 300	
Wheel nuts / bolts	Nm	95 to 105	
Spark plugs	Nm	25 to 34 oiled	
Capacities		164 V6 Cloverleaf CAT	1990 to 1993
Engine oil & filter	litres	7.0	
Gearbox - 4-speed [5-speed]	litres	1.6	
Automatic transmission - refill	litres	_	
Final drive	litres	WT	
Cooling system	litres	13.0. Refill:9.5	
Fuel tank	litres	70	

Notes and Illustrations

