

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Quattro 20V CAT 1989 to 1991

Type		RR (162kW) DOHC 20V
Capacity (cm ³) / number of cylinders		2226 / 5
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	[5.3]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-2-4-5-3
No 1 cylinder position		TBE
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	1.2 to 1.5

Fuel system Quattro 20V CAT 1989 to 1991

Idle speed - manual [auto]	rpm	740 to 860 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		Motronic plus Turbo
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system Quattro 20V CAT 1989 to 1991

Type		Motronic
Ignition coil		Bosch
Primary resistance	ohms	0.5 to 0.7
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8 to 12 BTDC N/A
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		Bosch
Type		F5DPOR
Electrode gap	mm	0.60 to 0.70

Electrical system Quattro 20V CAT 1989 to 1991

Battery	V / CC / RC	12 / 300 / 63Ah
Alternator voltage / full load current / engine rpm		12.5 to 14.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear Quattro 20V CAT 1989 to 1991

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	7.0 with backing

Tyres		
Saloon	Size	215/50x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+0.5 to -1.0
Camber		-50'±30'
Castor		+1°30'+40'
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		-30'±30'

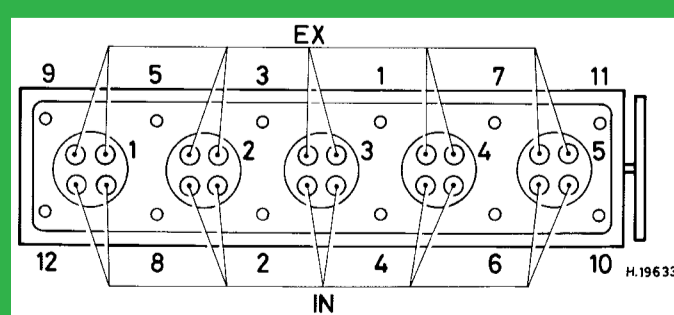
Torque wrench settings Quattro 20V CAT 1989 to 1991

Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	30 + 90°
Front hubs	Nm	280
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities Quattro 20V CAT 1989 to 1991

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	3.2
Automatic transmission - refill	litres	_
Final drive	litres	Rear: 2.2
Cooling system	litres	9.3
Fuel tank	litres	90

Notes and Illustrations



2226 cm³, DOHC 20V