

Engine & Cooling

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Automotive Technical
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Engine and cooling system220, 420 Turbo CAT1992 to 1996

Type		20T4 DOHC 16V T16 149kW
Capacity (cm ³) / number of cylinders		1994 / 4
Compression ratio / pressure	bar	8.5 / _
Oil pressure	bar	1.0 [4.1]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88 to 94
Radiator cap pressure	bar	0.9 to 1.0

Fuel system220, 420 Turbo CAT1992 to 1996

Idle speed - manual [auto]	rpm	875±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 Ex
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		Rover
Type / ref		Indirect MPI (H) with MEMS
Main jet / needle		_
Injection pressure	bar	3.0±0.2
Pump pressure	bar	5.0
Octane rating	RON	95[U]

Ignition system220, 420 Turbo CAT1992 to 1996

Type		MEMS
Ignition coil		NEC100510
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Lucas
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	12±5 BTDC @ 875±50
V = Vacuum NV = No Vacuum		V
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		Unipart
Type		GSP6662
Electrode gap	mm	0.85

Electrical system220, 420 Turbo CAT1992 to 1996

Battery	V / CC / RC	12 / 480 / 90
Alternator voltage / full load current / engine rpm		13.9 to 15.1 / 80 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear220, 420 Turbo CAT1992 to 1996

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	3.0

Tyres		
Saloon	Size	195/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[-10'±15'] U/L
Camber		-20'±10' U/L
Castor		+1°59'±30' U/L
King pin inclination		+12° U/L

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+11'±7.5'] PW
Camber		-50' to +50'

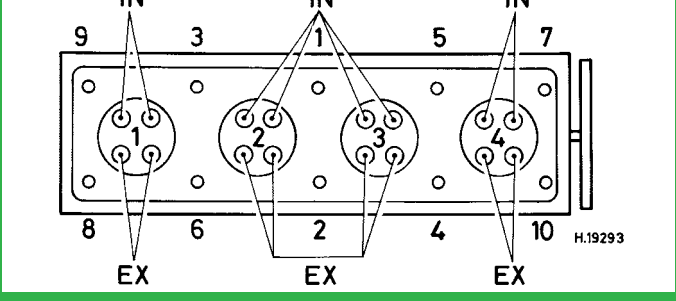
Torque wrench settings220, 420 Turbo CAT1992 to 1996

Cylinder head - stage 1	Nm	45
- stage 2	Nm	MSPS type: 80. KS: 70
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	_
Big-end bearings	Nm	55
Main bearings	Nm	110
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	110
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	25

Capacities220, 420 Turbo CAT1992 to 1996

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	55

Notes and Illustrations



1994 cm³, 16V