Haynes THE BOOK

Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system

		21 Turbo & 4x4 CAT (L48L) 1991 to 1993
Type		J7R-7-56 131kW
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	8.5 / _
Oil pressure	bar	1.0 [3.0]
Oil temperature	ºC	80
Valve clearance - inlet	mm	0.10 to 0.15
Valve clearance - exhaust	mm	0.20 to 0.25
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	ºC	89 to 101
Radiator cap pressure	bar	1.6

Fuel system

		21 Turbo & 4x4 CAT (L48L) 1991 to 1993
Idle speed - manual [auto]	rpm	800±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	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Renix
Type / ref		Multipoint MPI
Main jet / needle		_
Injection pressure	bar	2.5±0.2
Pump pressure	bar	3.0±0.2
Octane rating	RON	95[U]

Ignition system

		21 Turbo & 4x4 CAT (L48L) 1991 to 1993
Type		AEI
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	º (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	º Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		_
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		Eyquem/Champion
Type		803LJSP / C7YCC
Electrode gap	mm	0.60±0.05

Electrical system

		21 Turbo & 4x4 CAT (L48L) 1991 to 1993
Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.5 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	400 / _

Running gear

		21 Turbo & 4x4 CAT (L48L) 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	195/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.5 / 2.3
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	-1.0±1.0
Camber		-30'±30'
Castor		+4°20'±30'
King pin inclination		+11°55'±30'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	+2.0 to 5.0[1]
Camber		-20'±10'. 4x4: -30'±10'

Torque wrench settings

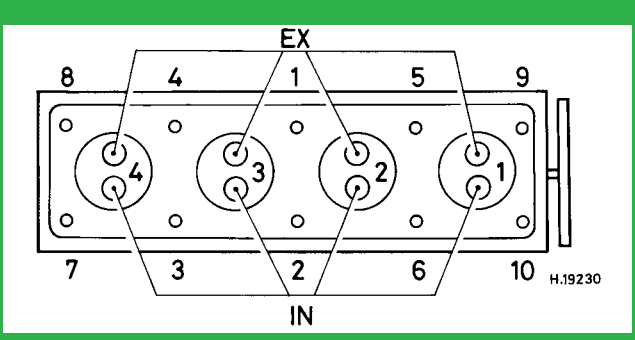
		21 Turbo & 4x4 CAT (L48L) 1991 to 1993
Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 105° + 105°
Cylinder head - stage 3	Nm	run for 15 mins
- stage 4	Nm	cool for 3 hours, then + 20°
Big-end bearings	Nm	45 to 50
Main bearings	Nm	88 to 98
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60
Front hubs	Nm	250
Rear hubs	Nm	160. 4x4: 210
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	_

Capacities

		21 Turbo & 4x4 CAT (L48L) 1991 to 1993
Engine oil & filter	litres	6.2
Gearbox - 4-speed [5-speed]	litres	3.0. 4x4: 3.4
Automatic transmission - refill	litres	_
Final drive	litres	4x4 rear: 1.3
Cooling system	litres	6.2
Fuel tank	litres	66. 4x4: 62

Notes and Illustrations

[1]**4x4: +3.0 to 5.0**



1995 cm³, 8V