

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

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Engine and cooling system 80 & 90, 2.8 CAT 1992 to 1994

Type	AAH SOHC12V + EGR. 128kW	
Capacity (cm ³) / number of cylinders	2771 / 6	
Compression ratio / pressure	bar	10.3 / ≥9.0
Oil pressure	bar	[4.5 to 6.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-4-3-6-2-5	
No 1 cylinder position	PER	
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	1.2 to 1.5

Fuel system 80 & 90, 2.8 CAT 1992 to 1994

Idle speed - manual [auto]	rpm	700 to 800 N/A ¹
Fast idle speed - manual [auto]	rpm	2500 to 2800
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤0.3] N/A
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	-	
Type / ref	MPI	
Main jet / needle	-	
Injection pressure	bar	2.2 to 3.0
Pump pressure	bar	3.8 to 4.2
Octane rating	RON	95[U]

Ignition system 80 & 90, 2.8 CAT 1992 to 1994

Type	FEI	
Ignition coil	3x N, N128, N158	
Primary resistance	ohms	0.5 to 1.2
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor	-	
Points gap (air gap)	mm	-
Dwell angle	° (%)	-
Condenser capacity	µF	-
Rotation	-	
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control 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	BKUR6ET-10	
Electrode gap	mm	1.00±0.10

Electrical system 80 & 90, 2.8 CAT 1992 to 1994

Battery	V / CC / RC	12 / -
Alternator voltage / full load current / engine rpm	12.5 to 14.5 / - / 2000	
Starter motor current / voltage - cranking	A / V	-
- locked	A / V	-

Running gear 80 & 90, 2.8 CAT 1992 to 1994

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	7.0 with backing
Tyres		
Saloon	Size	195/65x15: 205/60x15
Estate / Van	Size	195/65x15: 205/60x15
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	2.2 / 2.2
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+10'±10']
Camber		-45'±30'
Castor		+2°10'±30'
King pin inclination	-	
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+15'±10']. 4x4: [+10'±10'] PW
Camber		-1°30'±20'. 4x4: -40'±30'

Torque wrench settings 80 & 90, 2.8 CAT 1992 to 1994

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	20 + 180°
Main bearings	Nm	-
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	30 + 90°
Front hubs	Nm	M14: 120 + 90° ²
Rear hubs	Nm	WSM ³
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities 80 & 90, 2.8 CAT 1992 to 1994

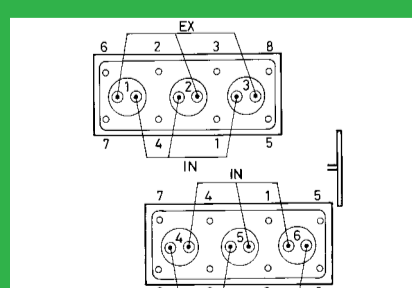
Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.4. 4x4: 2.9
Automatic transmission - refill	litres	3.0
Final drive	litres	1.0
Cooling system	litres	11.0
Fuel tank	litres	66

Notes and Illustrations

¹With lightweight valve gear: 650 to 750 N/A

²M16: 200 + 90°

³4x4: as front



2771 cm³