

Engine & Cooling

Fuel

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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 (cm³) / 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/A¹	
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	
CO2 @ idle speed [3000 rpm] - see page VI		%	—	
O2 @ 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	WSM³	
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

