

Engine & Cooling

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Engine and cooling systemA8, 2.8 DOHC 30V1996 to 1997

Type		ACK DOHC 30V 142kW
Capacity (cm³) / number of cylinders		2771 / 6
Compression ratio / pressure	bar	10.6 / ≥7.5
Oil pressure	bar	1.0 to 2.5 [3.0 to 5.0]
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 to 102
Radiator cap pressure	bar	1.2 to 1.5

Fuel systemA8, 2.8 DOHC 30V1996 to 1997

Idle speed - manual [auto]	rpm	640 to 760 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	—
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		_ Bosch
Type / ref		Motronic
Main jet / needle		—
Injection pressure	bar	3.6
Pump pressure	bar	3.8 to 4.2
Octane rating	RON	95[U]

Ignition systemA8, 2.8 DOHC 30V1996 to 1997

Type		Motronic
Ignition coil		
Primary resistance	ohms	—
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/Bosch
Type		BKUP6ET-10 / F7LTCR
Electrode gap	mm	0.90 to 1.10

Electrical systemA8, 2.8 DOHC 30V1996 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearA8, 2.8 DOHC 30V1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	7.0 with backing

Tyres		
Saloon	Size	225/60x16: 225/55x17
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+15'±5'] PW
Camber		-30'±30' PW
Castor		—
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+6'±5'] PW
Camber		-40'±30' PW

Torque wrench settingsA8, 2.8 DOHC 30V1996 to 1997

Cylinder head - stage 1	Nm	60 N
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	30 + 90° N
Main bearings	Nm	60 + 180° N
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	40 + 180° [30 + 90°] N
Front hubs	Nm	200 + 90°
Rear hubs	Nm	4x4: 200 + 90°
Wheel nuts / bolts	Nm	120
Spark plugs	Nm	25

CapacitiesA8, 2.8 DOHC 30V1996 to 1997

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.25. 4x4: 2.85
Automatic transmission - refill	litres	2.4
Final drive	litres	Front: 0.7. Rear 4x4: 1.5
Cooling system	litres	8.0
Fuel tank	litres	—

Notes and Illustrations

