

Engine & Cooling

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Automotive Technical
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Engine and cooling systemA6, 2.8 30V1995 to 1997

Type	ACK DOHC 30V 142kW	
Capacity (cm ³) / number of cylinders	2771 / 6	
Compression ratio / pressure	bar	10.6 / ≥7.5
Oil pressure	bar	[2.7 to 2.9]
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 systemA6, 2.8 30V1995 to 1997

Idle speed - manual [auto]	rpm	650 to 750
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	98[U]

Ignition systemA6, 2.8 30V1995 to 1997

Type	Motronic	
Ignition coil	Bosch	
Primary resistance	ohms	0.50 to 1.20
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	Bosch	
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
V = Vacuum NV = No Vacuum	NV	
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	NGK	
Type	BKUR6ET-10	
Electrode gap	mm	1.00 to 1.10

Electrical systemA6, 2.8 30V1995 to 1997

Battery	V / CC / RC	12 / 63Ah
Alternator voltage / full load current / engine rpm	12.5 to 14.5 / 90 / 2000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearA6, 2.8 30V1995 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	195/65x15: 205/60x15 ¹
Estate / Van	Size	195/65x15: 205/60x15 ¹
Pressure - front / rear - Saloon	bar	2.3 / 2.3 ²
- Estate / Van	bar	2.3 / 2.3 ²

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+15'+5'-10']
Camber	-50'+35'-25'. AT & 4x4: -40'	
Castor	+1°10'±40'. 4x4: +55'±40' N/A	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+20'±10']. 4x4: [+10'±10']
Camber	-50'±30'. 4x4: -15'±15'	

Torque wrench settingsA6, 2.8 30V1995 to 1997

Cylinder head - stage 1	Nm	60 N
- stage 2	Nm	+ 180°
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	60 + 180°
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 + 90° ³
Front hubs	Nm	200 + 90°
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

CapacitiesA6, 2.8 30V1995 to 1997

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.4. 4x4: 2.85 ⁴
Automatic transmission - refill	litres	3.0. 01F: 2.7
Final drive	litres	AT: 0.75. 4x4: 1.7 ⁵
Cooling system	litres	8.0
Fuel tank	litres	80

Notes and Illustrations

- ¹Also 215/60x15
- ²215/60x15: 2.1 / 2.1
- ³Dual mass: 40 + 180°
- ⁴01F: + 0.1 special gear additive
- ⁵01F: front: 0.7. Rear: 1.02

