

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling systemA4, 2.8 DOHC 30V1996 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	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		FR
Thermostat opening temperature	°C	87 to 102
Radiator cap pressure	bar	1.2

Fuel systemA4, 2.8 DOHC 30V1996 to 1997

Idle speed - manual [auto]	rpm	640 to 760 N/A
Fast idle speed - manual [auto]	rpm	N/A
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 MPI
Main jet / needle		—
Injection pressure	bar	3.2 to 3.8
Pump pressure	bar	3.8 to 4.2
Octane rating	RON	95[U]

Ignition systemA4, 2.8 DOHC 30V1996 to 1997

Type		Motronic
Ignition coil		—
Primary resistance	ohms	≤5.0
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
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Bosch/NGK
Type		F7LTCR / BKUP6ET-10
Electrode gap	mm	0.90 to 1.10

Electrical systemA4, 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 gearA4, 2.8 DOHC 30V1996 to 1997

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

Tyres		
Saloon	Size	195/65x15:205/60x15:205/55x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.4 / 2.4
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±5']
Camber		-20'±20'. Sports: -35'±20'
Castor		—
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±5']. Sports: [+15'±5']PW
Camber		-1°30'±20' PW

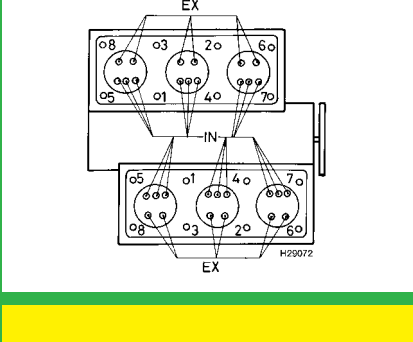
Torque wrench settingsA4, 2.8 DOHC 30V1996 to 1997

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	M14: 115 + 90°. M16: 190 + 90°
Rear hubs	Nm	WSM. 4x4: 115 + 90°
Wheel nuts / bolts	Nm	120
Spark plugs	Nm	25

CapacitiesA4, 2.8 DOHC 30V1996 to 1997

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	012: 2.25 / 01A: 2.75
Automatic transmission - refill	litres	2.6
Final drive	litres	WT. AT: 0.75. Rear 4x4: 1.9
Cooling system	litres	8.0
Fuel tank	litres	62

Notes and Illustrations



2771 cm³, 30V