

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemPersona 1.8 16V1996 to 1997

Type		4G93-1 DOHC 16V
Capacity (cm ³) / number of cylinders		1834 / 4
Compression ratio / pressure	bar	10.5 / 15.0
Oil pressure	bar	—
Oil temperature	°C	—
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	—

Fuel systemPersona 1.8 16V1996 to 1997

Idle speed - manual [auto]	rpm	800±100 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 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	3.35
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemPersona 1.8 16V1996 to 1997

Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.7 to 0.86
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	5° BTDC @ 800±100
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/Nippon Denso
Type		BK5E / K16P-U
Electrode gap	mm	—

Electrical systemPersona 1.8 16V1996 to 1997

Battery	V / CC / RC	12 / 53Ah
Alternator voltage / full load current / engine rpm		/ 75 /
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearPersona 1.8 16V1996 to 1997

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

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+0.0±3.0
Camber		0°00'±30'
Castor		2°15'±30'
King pin inclination		12°49'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0 to 5.0
Camber		+0°40'±30'

Torque wrench settingsPersona 1.8 16V1996 to 1997

Cylinder head - stage 1	Nm	75 slacken ¹
- stage 2	Nm	20
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	+90°
Big-end bearings	Nm	20 +90°
Main bearings	Nm	25 +90° ²
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	100 (100)
Front hubs	Nm	200 to 260
Rear hubs	Nm	180
Wheel nuts / bolts	Nm	90 to 110
Spark plugs	Nm	—

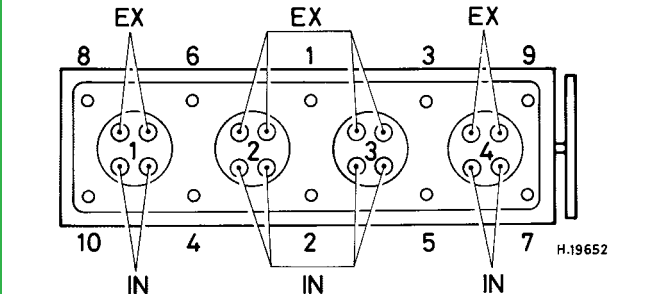
CapacitiesPersona 1.8 16V1996 to 1997

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	6.1
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	50

Notes and Illustrations

¹Bolt shank length ≤96.4 mm

²Bolt shank length ≤71.1 mm



1834 cm³ 16V