

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemDelta 2.0 16V Turbo1993 to 1997

Type		836 A2.000 DOHC 16V. 137kW
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	8.0 / _
Oil pressure	bar	1.1 [5.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.40±0.03
Valve clearance - exhaust	mm	0.50±0.03
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	81 to 85
Radiator cap pressure	bar	0.98

Fuel systemDelta 2.0 16V Turbo1993 to 1997

Idle speed - manual [auto]	rpm	850±50 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	%	≥13.0 Ex
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_Weber-Marelli
Type / ref		IAW 4Q3.P8
Main jet / needle		_
Injection pressure	bar	2.5
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemDelta 2.0 16V Turbo1993 to 1997

Type		IAW
Ignition coil		Magneti Marelli
Primary resistance	ohms	0.495 to 0.605
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	10±3 BTDC @ 850±50
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		Bosch
Type		WR6DTC
Electrode gap	mm	0.80 to 1.00

Electrical systemDelta 2.0 16V Turbo1993 to 1997

Battery	V / CC / RC	12 / 50Ah
Alternator voltage / full load current / engine rpm		12 / 70, 90 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearDelta 2.0 16V Turbo1993 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	205/50x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.5 / 2.3
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±1.0
Camber		-15'±30'
Castor		+2°40'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-0.5±2.0 N/A
Camber		-1°±30' N/A

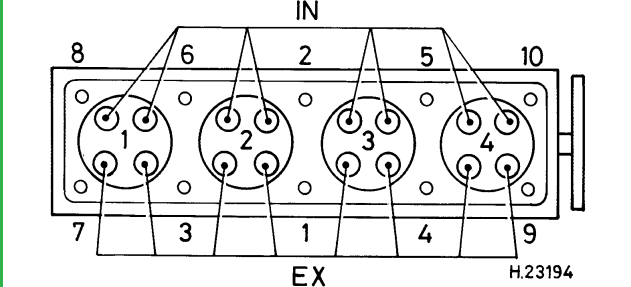
Torque wrench settingsDelta 2.0 16V Turbo1993 to 1997

Cylinder head - stage 1	Nm	20
- stage 2	Nm	70
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	+90°
Big-end bearings	Nm	25 + 50°
Main bearings	Nm	20 + 90°. Centre: 20 + 130°
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	142
Front hubs	Nm	240
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	37

CapacitiesDelta 2.0 16V Turbo1993 to 1997

Engine oil & filter	litres	5.2
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	8.5
Fuel tank	litres	57

Notes and Illustrations



1995 cm³ DOHC 16V