

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

Delta & Prisma 1600ie

1986 to 1989

Type		831 B7.000 DOHC
Capacity (cm ³) / number of cylinders		1585 / 4
Compression ratio / pressure	bar	9.7 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.40±0.04
Valve clearance - exhaust	mm	0.50±0.04
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 system

Delta & Prisma 1600ie

1986 to 1989

Idle speed - manual [auto]	rpm	800 to 860
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		IAW WH2P 03
Main jet / needle		_
Injection pressure	bar	2.5
Pump pressure	bar	≤4.5
Octane rating	RON	98[R]

Ignition system

Delta & Prisma 1600ie

1986 to 1989

Type		AEI
Ignition coil		Marelli BAE 504CK
Primary resistance	ohms	0.42 to 0.50
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	[0.3 to 0.4]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	16±2 BTDC @ 800 to 860
	° Crankshaft @ rpm	42±2 BTDC @ 5000
	° 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/Champion
Type		WR6DC / RN7YC
Electrode gap	mm	0.70 to 0.80

Electrical system

Delta & Prisma 1600ie

1986 to 1989

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / _ / 3000
Starter motor current / voltage - cranking	A / V	260 to 270 / 9.2 to 9.5
- locked	A / V	460 to 570 / 6.6 to 7.4

Running gear

Delta & Prisma 1600ie

1986 to 1989

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

Tyres		
Saloon	Size	165/65x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0 to -2.5
Camber		+10'±30' N/A
Castor		+2°20'±30' N/A¹
King pin inclination		+9°18'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0 to 5.0
Camber		-20'±30' N/A

Torque wrench settings

Delta & Prisma 1600ie

1986 to 1989

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	51
Main bearings	Nm	20 + 80°
Clutch cover	Nm	38
Flywheel [driveplate]	Nm	83
Front hubs	Nm	294
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities

Delta & Prisma 1600ie

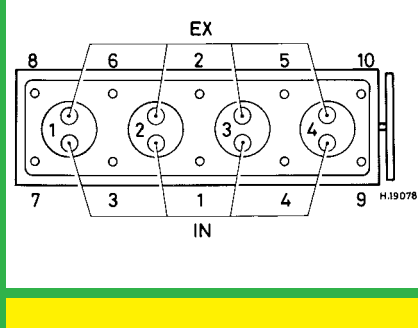
1986 to 1989

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	57

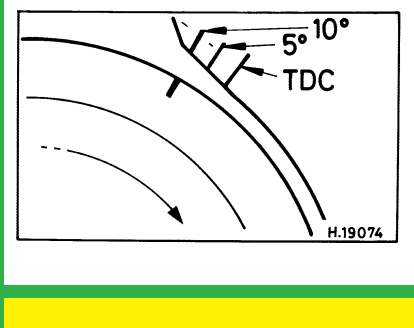
Notes and Illustrations

¹Prisma PAS: +3°25'±30' N/A

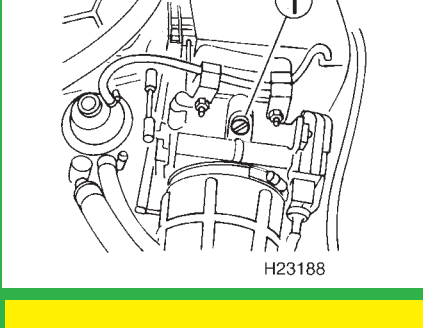
1: Idle speed 2: CO / Mixture



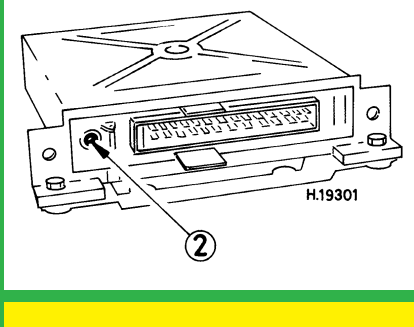
1585 cm³



1585 cm³



Weber IAW



Weber IAW