

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 systemDelta HF Turbo & Martini ie1986 to 1992

Type		831 B3.000 DOHC 103kW
Capacity (cm³) / number of cylinders		1585 / 4
Compression ratio / pressure	bar	8.0 / _
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 systemDelta HF Turbo & Martini ie1986 to 1992

Idle speed - manual [auto]	rpm	800 to 860
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±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 049/01 + Garrett T2 turbo
Main jet / needle		_
Injection pressure	bar	2.5±0.2
Pump pressure	bar	≤4.5
Octane rating	RON	98[R]

Ignition systemDelta HF Turbo & Martini ie1986 to 1992

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	14±2 BTDC @ 800 to 860
	° Crankshaft @ rpm	50±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		WR6DTC / RN7YC
Electrode gap	mm	0.80 to 1.00

Electrical systemDelta HF Turbo & Martini ie1986 to 1992

Battery	V / CC / RC	12 / 210 / 65 (40Ah)
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 65 / 3000
Starter motor current / voltage - cranking	A / V	260 / 9.5
- locked	A / V	460 to 500 / 7.4

Running gearDelta HF Turbo & Martini ie1986 to 1992

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°40'±30' N/A
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 settingsDelta HF Turbo & Martini ie1986 to 1992

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

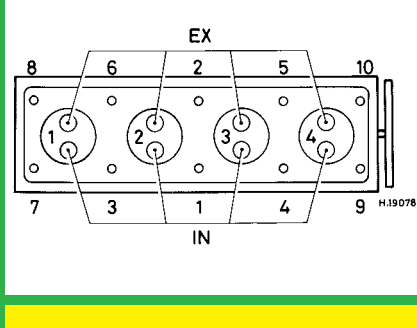
CapacitiesDelta HF Turbo & Martini ie1986 to 1992

Engine oil & filter	litres	4.8
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

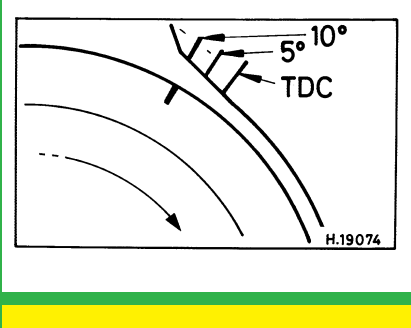
Notes and Illustrations



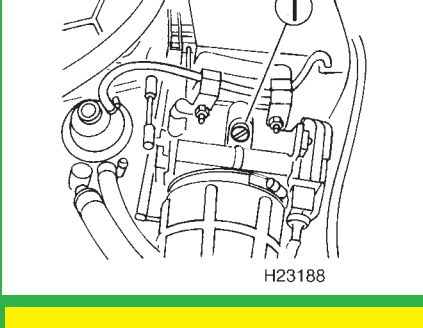
1: Idle speed 2: CO / Mixture



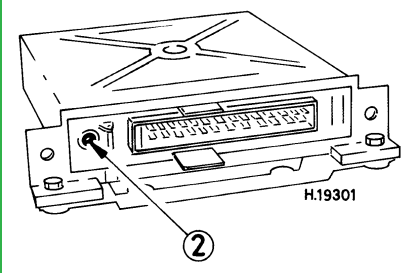
1585 cm³



1585 cm³



Weber IAW



Weber IAW