

Engine & Cooling

Fuel

Ignition

Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemDelta 13001986 to 1989

Type		1831 B7.000 SOHC
Capacity (cm³) / number of cylinders		1301 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.40±0.05
Valve clearance - exhaust	mm	0.50±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	83 to 87
Radiator cap pressure	bar	0.98

Fuel systemDelta 13001986 to 1989

Idle speed - manual [auto]	rpm	800 to 900
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		32-34 TLDA 1/250
Main jet / needle		112, 140
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	98[R]

Ignition systemDelta 13001986 to 1989

Type		Electronic
Ignition coil		Marelli BAE 506A
Primary resistance	ohms	0.76 to 0.92
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		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 800 to 1200
	° Crankshaft @ rpm	10.5 to 14.5 @ 2300 to 2700
	° Crankshaft @ rpm	18 to 22 @ 4800 to 5200
Vacuum range check	mbar	160 to 467
Maximum vacuum advance	° Crankshaft	13 to 17
Spark plugs		Bosch/Champion
Type		WR6DC / RN7YC
Electrode gap	mm	0.70 to 0.80

Electrical systemDelta 13001986 to 1989

Battery	V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / _ / 3000
Starter motor current / voltage - cranking	A / V	170 / 10.3
- locked	A / V	300 to 330 / 7.0 to 7.2

Running gearDelta 13001986 to 1989

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

Tyres		
Saloon	Size	165/70x13:165/65x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.8 / 1.8¹
- 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/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 13001986 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	80
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	294
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

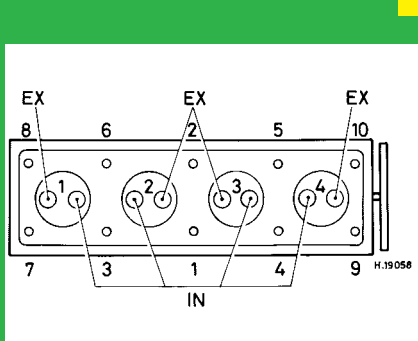
CapacitiesDelta 13001986 to 1989

Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	3.5
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	57

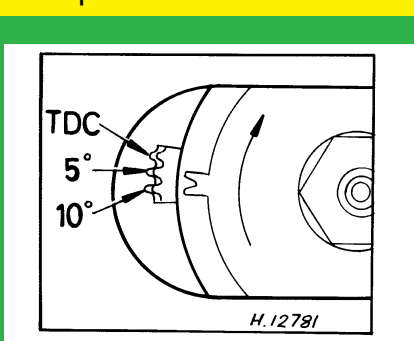
Notes and Illustrations



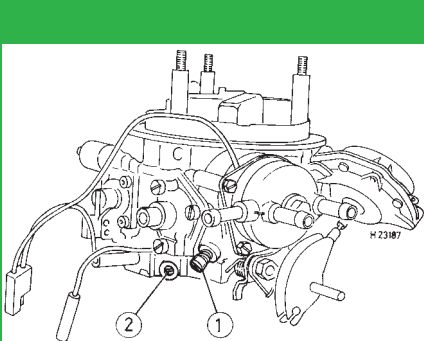
1: Idle speed 2: CO / Mixture



1301 cm³



1301 cm³



Weber 32-34 TLDA