

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemDedra 1.8ie CAT1990 to 1994

Type		835 A2.046 DOHC (77kW) US83
Capacity (cm³) / number of cylinders		1756 / 4
Compression ratio / pressure	bar	9.5±0.15 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.43±0.04
Valve clearance - exhaust	mm	0.48±0.04
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	83±2
Radiator cap pressure	bar	0.98

Fuel systemDedra 1.8ie CAT1990 to 1994

Idle speed - manual [auto]	rpm	850±50
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	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber-Marelli
Type / ref		IAW MPI 04U
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	≤4.5
Octane rating	RON	95[U]

Ignition systemDedra 1.8ie CAT1990 to 1994

Type		Digiplex 2
Ignition coil		Marelli BAE 209D
Primary resistance	ohms	0.41 to 0.50
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	10±2 BTDC @ 600 to 1100
Total ignition advance	° Crankshaft @ rpm	40±2 BTDC @ 3000
	° 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		Champion
Type		RN7YCC
Electrode gap	mm	0.85 to 0.95

Electrical systemDedra 1.8ie CAT1990 to 1994

Battery	V / CC / RC	12 / 320 / 60Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.6 / _ / 3500
Starter motor current / voltage - cranking	A / V	360 to 380 / 8.2
- locked	A / V	680 to 700 / 4.9

Running gearDedra 1.8ie CAT1990 to 1994

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

Tyres		
Saloon	Size	175/65x14: 185/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.0¹
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		+15'±30' N/A
Castor		+1°20'±30'. PAS: +2°40'±30'N/A
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.0 to +1.5
Camber		-1°30'±30' N/A

Torque wrench settingsDedra 1.8ie CAT1990 to 1994

Cylinder head - stage 1	Nm	40
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	25 + 50°
Main bearings	Nm	20 + 130°²
Clutch cover	Nm	38
Flywheel [driveplate]	Nm	142
Front hubs	Nm	450³
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

CapacitiesDedra 1.8ie CAT1990 to 1994

Engine oil & filter	litres	5.2
Gearbox - 4-speed [5-speed]	litres	1.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.9
Fuel tank	litres	59

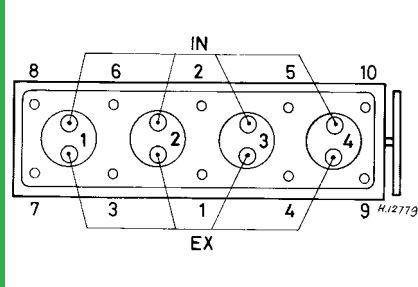
Notes and Illustrations

¹185/60x14 from chassis no. 042.435: 2.2 / 2.1

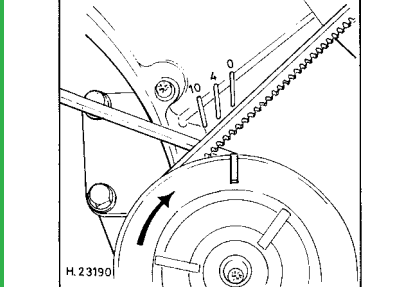
²Centre bearing only. Others: 20 + 90°

³Nuts with integral washers: 280

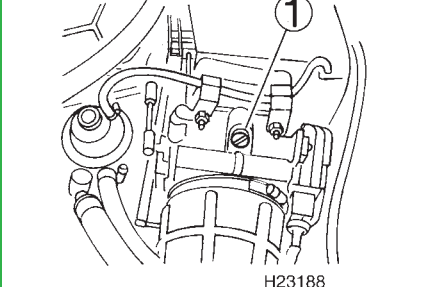
1: Idle speed 2: CO / Mixture



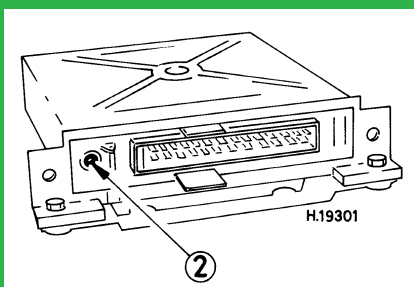
1756 cm³



1756 cm³



Weber IAW



Weber IAW