

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemDedra 2.0ie Turbo & CAT1991 to 1996

Type		835 A8.000 DOHC 119kW ¹
Capacity (cm ³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	7.5±0.15 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.35±0.04
Valve clearance - exhaust	mm	0.40±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 2.0ie Turbo & CAT1991 to 1996

Idle speed - manual [auto]	rpm	800 to 900. CAT: 850±30
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 1.5. CAT: 0.5 to 0.9
HC @ idle speed [3000 rpm] - see page VI	ppm	≤800
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 471
Main jet / needle		_
Injection pressure	bar	2.5
Pump pressure	bar	≤4.5
Octane rating	RON	95[E 95 RON] ²

Ignition systemDedra 2.0ie Turbo & CAT1991 to 1996

Type		IAW
Ignition coil		Marelli BAE 504DK or AEI600C
Primary resistance	ohms	0.405 to 0.495
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	° Crankshaft @ rpm	10±2 BTDC @ 850 to 950 ³
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	38±2 BTDC @ 4000
	° 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/Champion
Type		WR6DTC / RN7YCC
Electrode gap	mm	0.60 to 0.70

Electrical systemDedra 2.0ie Turbo & CAT1991 to 1996

Battery	V / CC / RC	12 / 225 / 45 or 320 / 60Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 70, 80 / 3500
Starter motor current / voltage - cranking	A / V	360 to 380 / 8.2
- locked	A / V	680 to 700 / 4.9

Running gearDedra 2.0ie Turbo & CAT1991 to 1996

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

Tyres		
Saloon	Size	195/50x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.4 / 2.2
- Estate / Van	bar	_

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.5 to +1.5
Camber		-1°±30' N/A

Torque wrench settingsDedra 2.0ie Turbo & CAT1991 to 1996

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° ⁴
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	142
Front hubs	Nm	280
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	37

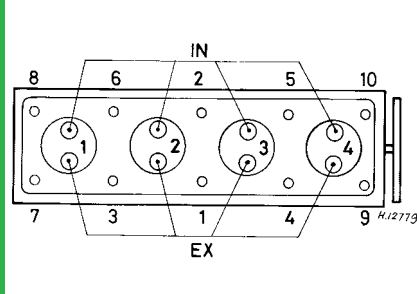
CapacitiesDedra 2.0ie Turbo & CAT1991 to 1996

Engine oil & filter	litres	5.2
Gearbox - 4-speed [5-speed]	litres	1.95
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.9
Fuel tank	litres	63

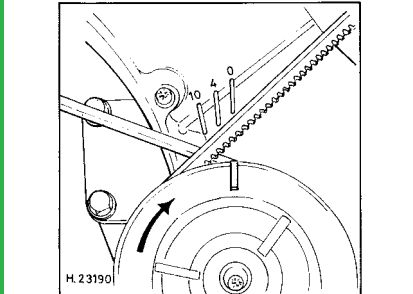
Notes and Illustrations

¹CAT: 835 A8.046 US83
²CAT: 95 [U]
³CAT: 6±2 BTDC @ 1750
⁴Centre bearing only. Others: 20 + 90°

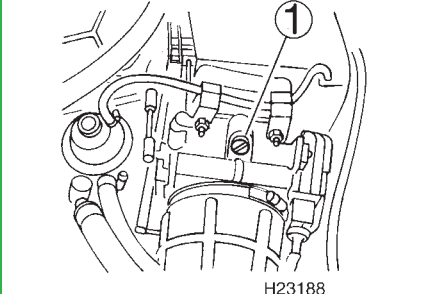
1: Idle speed 2: CO / Mixture



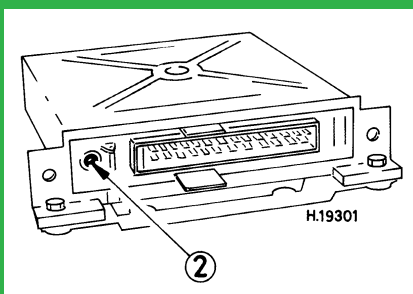
1995 cm³, 8V



1995 cm³, 8V



Weber IAW



Weber IAW