

Engine & Cooling

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemCX 25 Turbo 21986 to 1989

Type		M25 / 666
Capacity (cm³) / number of cylinders		2500 / 4
Compression ratio / pressure	bar	8.5 / _
Oil pressure	bar	[4.0 to 5.0]
Oil temperature	°C	90
Valve clearance - inlet	mm	0.15
Valve clearance - exhaust	mm	0.20
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	86
Radiator cap pressure	bar	1.0

Fuel systemCX 25 Turbo 21986 to 1989

Idle speed - manual [auto]	rpm	750 to 800
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	≥10.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LE-Jetronic + T3 Turbo
Main jet / needle		_
Injection pressure	bar	2.0
Pump pressure	bar	2.0 to 2.5
Octane rating	RON	98[L]

Ignition systemCX 25 Turbo 21986 to 1989

Type		AEI
Ignition coil		2x Delco-Remy
Primary resistance	ohms	1.0 to 1.2
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 800
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	EC002-ED003
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	9 to 11 @ 1000
	° Crankshaft @ rpm	22 to 25 @ 2000
	° Crankshaft @ rpm	27 to 29 @ 5300
Vacuum range check	mbar	0 to 350
Maximum vacuum advance	° Crankshaft	21 to 23
Spark plugs		AC/Champion
Type		C42CFS / C82YC
Electrode gap	mm	0.80 to 0.90

Electrical systemCX 25 Turbo 21986 to 1989

Battery	V / CC / RC	12 / 250 / 55, 70Ah
Alternator voltage / full load current / engine rpm		13.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	300 / 9
- locked	A / V	480 / 7.3

Running gearCX 25 Turbo 21986 to 1989

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	210/55x390 TRX
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.3 / 1.5
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0 to 4.0
Camber		0-29'+13'
Castor		-25' to -1°15'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +4.0
Camber		0+0-24'

Torque wrench settingsCX 25 Turbo 21986 to 1989

Cylinder head - stage 1	Nm	40
- stage 2	Nm	+ 100°
Cylinder head - stage 3	Nm	+ 100°, warm up engine
- stage 4	Nm	Cool for 3 hrs, + 45°
Big-end bearings	Nm	92
Main bearings	Nm	95
Clutch cover	Nm	23
Flywheel [driveplate]	Nm	90
Front hubs	Nm	375
Rear hubs	Nm	400
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	15 to 20

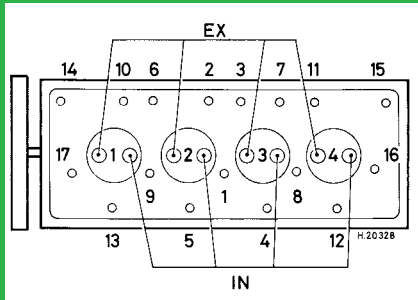
CapacitiesCX 25 Turbo 21986 to 1989

Engine oil & filter	litres	6.0
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	13.0
Fuel tank	litres	68

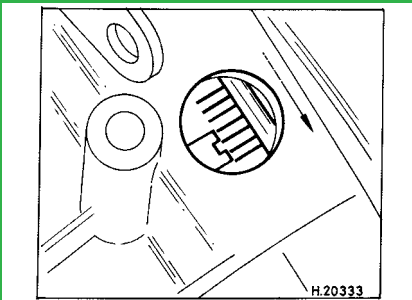
Notes and Illustrations



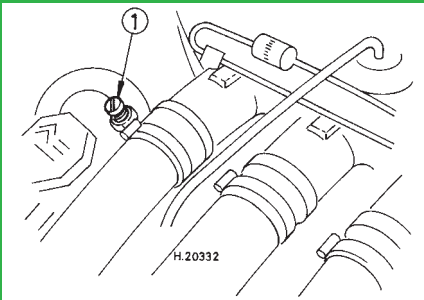
1: Idle speed 2: CO / Mixture



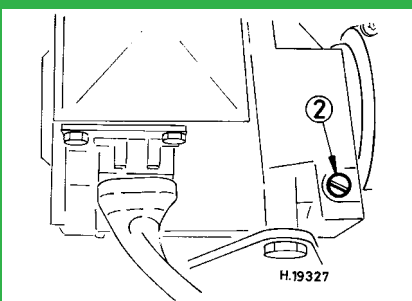
2500 cm³



2500 cm³



LE-Jetronic



LE-Jetronic