

Engine and cooling system

BX 19i & 4x4

1986 to 1991

Type		XU9J2 (D6A) 90kW
Capacity (cm ³) / number of cylinders		1905 / 4
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	[3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	1.0

Fuel system

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Idle speed - manual [auto]	rpm	800 to 850
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-3 Jetronic
Main jet / needle		_
Injection pressure	bar	2.0 to 2.5
Pump pressure	bar	_
Octane rating	RON	97[RA] ¹

Ignition system

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Type		Electronic - Hall effect
Ignition coil		Bosch, Ducellier
Primary resistance	ohms	B: 0.82±10%. D: 0.8±5%
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier/Bosch
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	5 BTDC @ 900 ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	C037-D019
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 1100 to 1300
	° Crankshaft @ rpm	20 to 24 @ 3000
	° Crankshaft @ rpm	21 to 25 @ 3400
Vacuum range check	mbar	80 to 530
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		Eyquem/Champion
Type		FC62LS / C7YCX
Electrode gap	mm	0.60 to 0.70

Electrical system

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Battery	V / CC / RC	12 / 225 / 33
Alternator voltage / full load current / engine rpm		13.5 / 50, 80 / 3600
Starter motor current / voltage - cranking	A / V	220 / _
- locked	A / V	350 / _

Running gear

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

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	165/70x14: 175/65x14
Pressure - front / rear - Saloon	bar	2.2 / 2.2 ²
- Estate / Van	bar	2.3 / 2.5

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to -3.0
Camber		0±30'. 4x4: +1°39'±35'
Castor		+2°±35'. 4x4: 0±30'
King pin inclination		+11°58'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +5.0 ³
Camber		-1°±20'

Torque wrench settings

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Cylinder head - stage 1	Nm	60, then slacken ⁴
- stage 2	Nm	20 + 120 ⁴
Cylinder head - stage 3	Nm	Warm up, then cool, slacken ⁴
- stage 4	Nm	20 + 120 ⁴
Big-end bearings	Nm	50
Main bearings	Nm	53
Clutch cover	Nm	22
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	270
Rear hubs	Nm	270
Wheel nuts / bolts	Nm	70. Alloy: 90
Spark plugs	Nm	25

Capacities

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Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	1.8 ⁵
Automatic transmission - refill	litres	2.5
Final drive	litres	4x4 rear: 1.7
Cooling system	litres	6.5
Fuel tank	litres	66. Estate: 52

Notes and Illustrations

¹[E 95 RON]: 2 BTDC @ 900

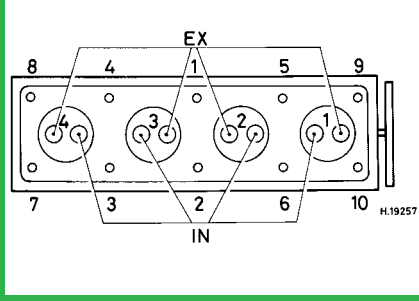
²4x4: 2.1 / 2.1

³4x4: +1.6 to 5.0

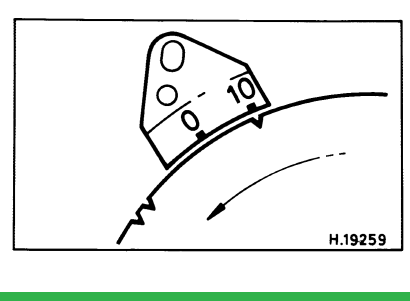
⁴1987 ►: Torx type: 60, then slacken. 20 + 300°

⁵Transfer box: 1.8

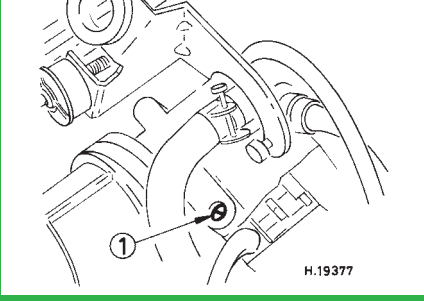
1: Idle speed2: CO / Mixture



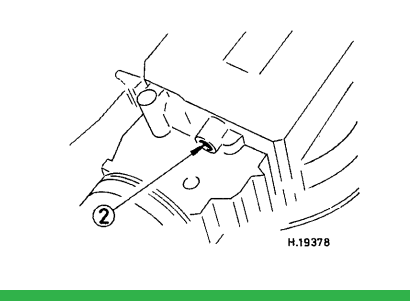
1905 cm³, 8V



1905 cm³, 8V



LE3-Jetronic



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