

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

Boxer 2.0

1994 to 1997

Type		XU10J2.U RFW
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	1.7 [4.8]
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	83
Radiator cap pressure	bar	1.10

Fuel system

Boxer 2.0

1994 to 1997

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.35 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤90
CO2 @ idle speed [3000 rpm] - see page VI	%	≥13.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_Magneti-Marelli
Type / ref		IAW8P.11 MPI
Main jet / needle		_
Injection pressure	bar	2.0 to 2.5
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

Boxer 2.0

1994 to 1997

Type		Static
Ignition coil		_
Primary resistance	ohms	0.5
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	Computer control N/A
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		Eyquem/Champion
Type		RFC52LS / RN9YCC
Electrode gap	mm	0.80

Electrical system

Boxer 2.0

1994 to 1997

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 80 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

Boxer 2.0

1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	_
Estate / Van	Size	195/70x15: 205/70x15³
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	270: 3.0 / 3.0⁴

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.0±1.0
Camber		0'±30'
Castor		1°±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0.0±1.0
Camber		0±10'

Torque wrench settings

Boxer 2.0

1994 to 1997

Cylinder head - stage 1	Nm	35¹
- stage 2	Nm	70
Cylinder head - stage 3	Nm	+ 160°
- stage 4	Nm	_
Big-end bearings	Nm	40 then undo, 20 +70°²
Main bearings	Nm	70
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	50
Front hubs	Nm	450. 18Q: 500
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	160 (18Q: 180)
Spark plugs	Nm	20

Capacities

Boxer 2.0

1994 to 1997

Engine oil & filter	litres	5.1
Gearbox - 4-speed [5-speed]	litres	1.85
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	8.0
Fuel tank	litres	80

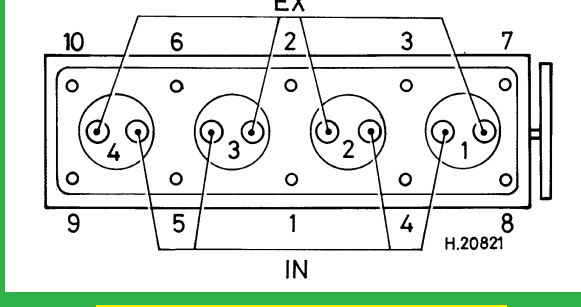
Notes and Illustrations

¹Maximum bolt length, 122mm under head

²Do not re-use

³215/75x15:205/75x15:215/75x16

⁴310/320: 4.1 / 4.5 350: 4.5 / 4.5



1998 cm³, 8V