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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system 21, 2.2 CAT (B/K/L48K) 1992 to 1995

Type		J7T-7-54 [J7T-7-55]
Capacity (cm <sup>3</sup> ) / number of cylinders		2165 / 4
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	0.8 [3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10 to 0.15
Valve clearance - exhaust	mm	0.20 to 0.25
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	89 to 101
Radiator cap pressure	bar	1.2

## Fuel system 21, 2.2 CAT (B/K/L48K) 1992 to 1995

Idle speed - manual [auto]	rpm	800±25 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	≥14.5
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Siemens Bendix
Type / ref		Fenix 3B MPI
Main jet / needle		_
Injection pressure	bar	2.0±0.2
Pump pressure	bar	3.0±0.2
Octane rating	RON	91[U]

## Ignition system 21, 2.2 CAT (B/K/L48K) 1992 to 1995

Type		Computerized
Ignition coil		Renix
Primary resistance	ohms	0.4 to 0.8
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 V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	Computer control
Total ignition advance	° Crankshaft @ rpm	_
	° 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		AC/Champion
Type		C41CLTS / S7YC
Electrode gap	mm	0.85 to 0.95

## Electrical system 21, 2.2 CAT (B/K/L48K) 1992 to 1995

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.5 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

## Running gear 21, 2.2 CAT (B/K/L48K) 1992 to 1995

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	2.5 with backing

<b>Tyres</b>		
Saloon	Size	185/65x14
Estate / Van	Size	185/65x14
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	2.3 / 2.6

<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		-25'±30'
Castor		+2°±30'
King pin inclination		+12°45'±30'

<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0 to 5.0 4x4: 3.0 to 5.0
Camber		-20'±10' 4x4: -30'±10'

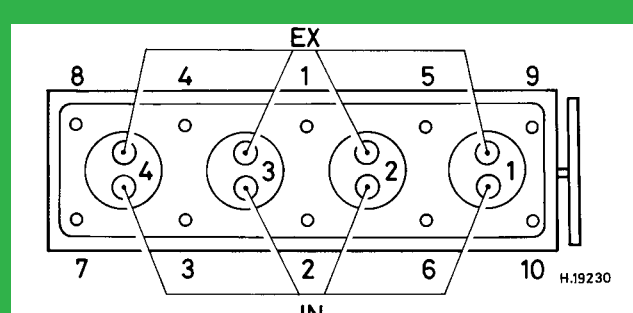
## Torque wrench settings 21, 2.2 CAT (B/K/L48K) 1992 to 1995

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 105° + 105°
Cylinder head - stage 3	Nm	run for 15 mins
- stage 4	Nm	cool for 3 hours, then + 20°
Big-end bearings	Nm	60 to 65
Main bearings	Nm	88 to 98
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 [65 to 70]
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	_

## Capacities 21, 2.2 CAT (B/K/L48K) 1992 to 1995

Engine oil & filter	litres	6.2
Gearbox - 4-speed [5-speed]	litres	2.2. 4x4: 2.4
Automatic transmission - refill	litres	4.0
Final drive	litres	4x4 rear: 1.3 AT: 0.8
Cooling system	litres	5.7 [AT: 7.2]
Fuel tank	litres	66. 4x4: 62

## Notes and Illustrations



2165 cm<sup>3</sup>