

Engine & Cooling

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Automotive Technical
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Engine and cooling system25 2.2 CAT (B29B)1990 to 1991

Type		J7T-7-32 [AT: J7T-7-33]
Capacity (cm³) / 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	88
Radiator cap pressure	bar	0.8 to 1.2

Fuel system25 2.2 CAT (B29B)1990 to 1991

Idle speed - manual [auto]	rpm	800±25 N/A
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	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Renix
Type / ref		Bendix R electronic MPI
Main jet / needle		_
Injection pressure	bar	2.5±0.2
Pump pressure	bar	3.0±0.2
Octane rating	RON	91[U]

Ignition system25 2.2 CAT (B29B)1990 to 1991

Type		AEI
Ignition coil		Renix
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Renix
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	AEI control
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	AEI control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	AEI control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		AC/Champion
Type		C41CLTS / S7YC
Electrode gap	mm	0.90±0.05

Electrical system25 2.2 CAT (B29B)1990 to 1991

Battery	V / CC / RC	12 / 255 / 85
Alternator voltage / full load current / engine rpm		13.5 to 14.8 / 75, 105 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	400 / _

Running gear25 2.2 CAT (B29B)1990 to 1991

Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	2.5 with backing¹

Tyres		
Saloon	Size	185/70x14: 195/60x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-3.0±1.0
Camber		0±30'
Castor		+2°. PAS: +4°
King pin inclination		+12°30'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±1.0
Camber		-1°15'±30'

Torque wrench settings25 2.2 CAT (B29B)1990 to 1991

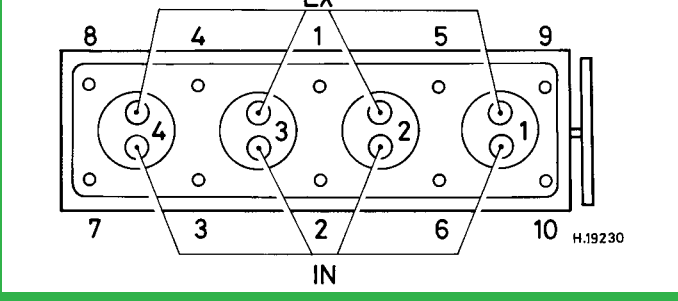
Cylinder head - stage 1	Nm	50
- stage 2	Nm	80
Cylinder head - stage 3	Nm	- 180°
- stage 4	Nm	88 to 98
Big-end bearings	Nm	60 to 65
Main bearings	Nm	88 to 98
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 [65 to 70]
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	90. ABS: 100
Spark plugs	Nm	_

Capacities25 2.2 CAT (B29B)1990 to 1991

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	2.2
Automatic transmission - refill	litres	2.5 [AR4: 4.0]
Final drive	litres	AR4: 0.8
Cooling system	litres	8.0
Fuel tank	litres	72

Notes and Illustrations

¹ABS: 6.0 with backing



2165 cm³