Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU HELP

Engine and cooling system

220, 420 CAT 1992 to 1996

Type		20T4 DOHC 16V T16 101kW
Capacity (cm³) / number of cylinders		1994 / 4
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	1.0 [4.1]
Oil temperature	ºC	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	ºC	88 to 94
Radiator cap pressure	bar	0.9 to 1.0

Fuel system

220, 420 CAT 1992 to 1996

Idle speed - manual [auto]	rpm	875±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 Ex
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Rover
Type / ref		Indirect MPI (H) with MEMS
Main jet / needle		_
Injection pressure	bar	3.0±0.2
Pump pressure	bar	5.0
Octane rating	RON	95[U]

Ignition system

220, 420 CAT 1992 to 1996

Type		MEMS
Ignition coil		NEC10002 or 10003
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Lucas
Points gap (air gap)	mm	_
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	º Crankshaft @ rpm	12±5 BTDC @ 875±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		Unipart/Champion
Type		GSP6662 / RC9YC
Electrode gap	mm	0.85

Electrical system

220, 420 CAT 1992 to 1996

Battery	V / CC / RC	12 / 480 / 90
Alternator voltage / full load current / engine rpm		13.9 to 15.1 / 80 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

220, 420 CAT 1992 to 1996

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0. Discs: 3.0
Tyres		
Saloon	Size	175/70x14: 185/60x14[1]
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[-10'±15'] U/L
Camber		-20'±10' U/L
Castor		+1°59'±30' U/L
King pin inclination		+12° U/L
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+11'±7.5'] PW
Camber		-50' to +50'

Torque wrench settings

220, 420 CAT 1992 to 1996

Cylinder head - stage 1	Nm	45
- stage 2	Nm	MSPS type: 80. KS: 70
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	_
Big-end bearings	Nm	55
Main bearings	Nm	110
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	110
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	25

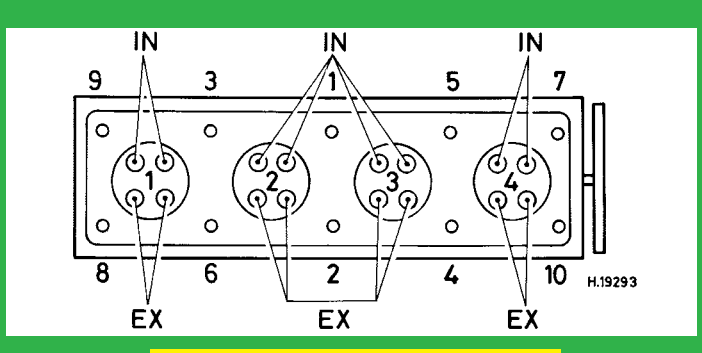
Capacities

220, 420 CAT 1992 to 1996

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	55

Notes and Illustrations

[1]**175/65x14: 175/70x15: 185/55x15**



1994 cm³, 16V