

Engine & Cooling

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Automotive Technical
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Engine and cooling system214, 414 DOHC 16V CAT1992 to 1996

Type		1.4 K16 DOHC 16V 77kW
Capacity (cm ³) / number of cylinders		1397 / 4
Compression ratio / pressure	bar	10.0 / $\bar{}$
Oil pressure	bar	1.0 [$\leq$ 7.0]
Oil temperature	°C	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	°C	80 to 84
Radiator cap pressure	bar	0.9 to 1.0

Fuel system214, 414 DOHC 16V CAT1992 to 1996

Idle speed - manual [auto]	rpm	875±50 N/A
Fast idle speed - manual [auto]	rpm	$\bar{}$
CO @ idle speed [3000 rpm] - see page VI	%	$\leq$ 0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	$\leq$ 300
CO ₂ @ idle speed [3000 rpm] - see page VI	%	$\bar{}$
O ₂ @ idle speed [3000 rpm] - see page VI	%	$\bar{}$
Carburettor / fuel injection		Rover.
Type / ref		Indirect MPI with MEMS
Main jet / needle		$\bar{}$
Injection pressure	bar	3.0±0.2
Pump pressure	bar	$\leq$ 4.1
Octane rating	RON	95[U]

Ignition system214, 414 DOHC 16V CAT1992 to 1996

Type		MEMS
Ignition coil		NEC 10002, 10003, 10004
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	$\bar{}$
Voltage - Tmnl 15(+) to earth	V	$\bar{}$
Distributor		$\bar{}$
Points gap (air gap)	mm	$\bar{}$
Dwell angle	° (%)	$\bar{}$
Condenser capacity	µF	$\bar{}$
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±5 BTDC @ 875±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	$\bar{}$
	° Crankshaft @ rpm	$\bar{}$
	° Crankshaft @ rpm	$\bar{}$
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	$\bar{}$
	° Crankshaft @ rpm	$\bar{}$
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	$\bar{}$
Spark plugs		Unipart/Champion
Type		GSP6662 / RC9YCC
Electrode gap	mm	0.85±0.05

Electrical system214, 414 DOHC 16V CAT1992 to 1996

Battery	V / CC / RC	12 / 360 / 60, 12 / 405 / 70
Alternator voltage / full load current / engine rpm		$\bar{}$ / 65 / 3000
Starter motor current / voltage - cranking	A / V	$\bar{}$
- locked	A / V	$\bar{}$

Running gear214, 414 DOHC 16V CAT1992 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	175/65x14: 185/55x15
Estate / Van	Size	$\bar{}$
Pressure - front / rear - Saloon	bar	2.1 / 2.1: 2.2 / 2.2
- Estate / Van	bar	$\bar{}$

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[-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 [°]	[+11'±7.5'] PW U/L
Camber		-50' to +50' U/L

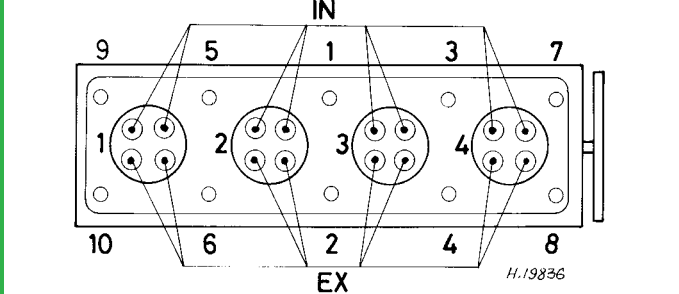
Torque wrench settings214, 414 DOHC 16V CAT1992 to 1996

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 180°
Cylinder head - stage 3	Nm	+ 180°
- stage 4	Nm	$\bar{}$
Big-end bearings	Nm	20 + 45°
Main bearings	Nm	WSM
Clutch cover	Nm	18
Flywheel [driveplate]	Nm	85 N
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	25

Capacities214, 414 DOHC 16V CAT1992 to 1996

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	$\bar{}$
Final drive	litres	WT
Cooling system	litres	5.0
Fuel tank	litres	55

Notes and Illustrations



1397 cm³, 16V