Haynes THE BOOK ®

Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system — 214, 414 DOHC 16V & CAT — 1989 to 1991

Type		1.4 K16 DOHC 16V
Capacity (cm³) / number of cylinders		1397 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	1.0 [≤7.0]
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	82
Radiator cap pressure	bar	0.9 to 1.0

Fuel system — 214, 414 DOHC 16V & CAT — 1989 to 1991

Idle speed - manual [auto]	rpm	850±50, ECU control
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 2.0
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		Throttle body injection
Main jet / needle		_
Injection pressure	bar	1.0 to 1.2
Pump pressure	bar	≤2.7
Octane rating	RON	97[E 95 RON][1]

Ignition system — 214, 414 DOHC 16V & CAT — 1989 to 1991

Type		MEMS
Ignition coil		NEC 10002 or 10003
Primary resistance	ohms	0.30 to 0.50
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	º Crankshaft @ rpm	13±2 BTDC @ idle[2]
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 / RC9YCC
Electrode gap	mm	0.85±0.05

Electrical system — 214, 414 DOHC 16V & CAT — 1989 to 1991

Battery	V / CC / RC	12 / 360 / 60
Alternator voltage / full load current / engine rpm		_ / 65 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear — 214, 414 DOHC 16V & CAT — 1989 to 1991

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: 185/60x14
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 U/L
Camber		-50' to +50' U/L

Torque wrench settings — 214, 414 DOHC 16V & CAT — 1989 to 1991

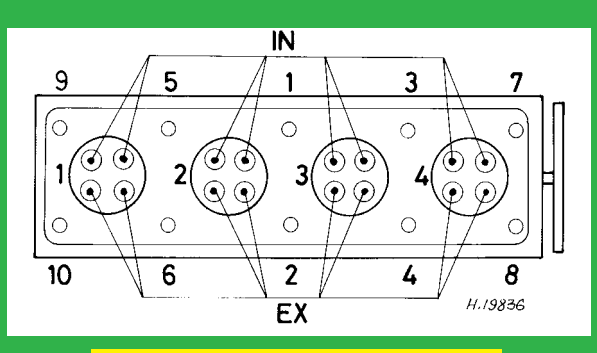
Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 180°
Cylinder head - stage 3	Nm	+ 180°
- stage 4	Nm	_
Big-end bearings	Nm	20 + 45°
Main bearings	Nm	WSM
Clutch cover	Nm	18
Flywheel [driveplate]	Nm	85 N
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	25

Capacities — 214, 414 DOHC 16V & CAT — 1989 to 1991

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	5.8
Fuel tank	litres	55

Notes and Illustrations

[1]**CAT: [U]**
[2]**With MNE 10011 control unit. MNE 10013 or 10051: 14±2 BTDC @ idle**



1397 cm³, 16V