

Engine & Cooling

Fuel

Ignition

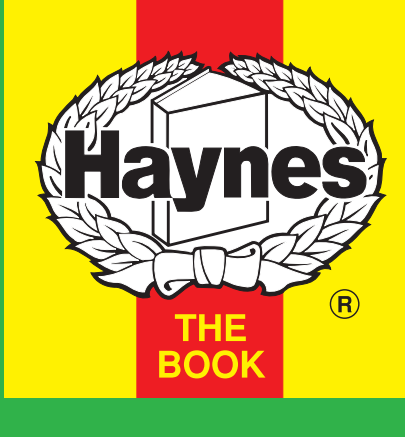
Electrical

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Automotive Technical
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Engine and cooling systemMetro / 114 1.4 GTi 16V & CAT1990 to 1993

Type		K16 DOHC 16V
Capacity (cm³) / number of cylinders		1397 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	1.0
Oil temperature	°C	_
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	76 to 80
Radiator cap pressure	bar	0.9 to 1.0

Fuel systemMetro / 114 1.4 GTi 16V & CAT1990 to 1993

Idle speed - manual [auto]	rpm	850±50
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	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Rover
Type / ref		Tbi
Main jet / needle		_
Injection pressure	bar	1.00 to 1.10
Pump pressure	bar	2.7
Octane rating	RON	97[E 95 RON] ¹

Ignition systemMetro / 114 1.4 GTi 16V & CAT1990 to 1993

Type		MEMS
Ignition coil		NEC100002 / NEC100003
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	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	²
V = Vacuum NV = No Vacuum		V
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		Unipart/Champion
Type		GSP6662 / RC9YCC
Electrode gap	mm	0.85

Electrical systemMetro / 114 1.4 GTi 16V & CAT1990 to 1993

Battery	V / CC / RC	12 / 360 / 60 or 405 / 70
Alternator voltage / full load current / engine rpm		14.0 / 65 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearMetro / 114 1.4 GTi 16V & CAT1990 to 1993

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	185/55x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[0 to -25']
Camber		+10'±37'
Castor		+2°±55'
King pin inclination		+10°52'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+10' to 50']
Camber		-1°±30'

Torque wrench settingsMetro / 114 1.4 GTi 16V & CAT1990 to 1993

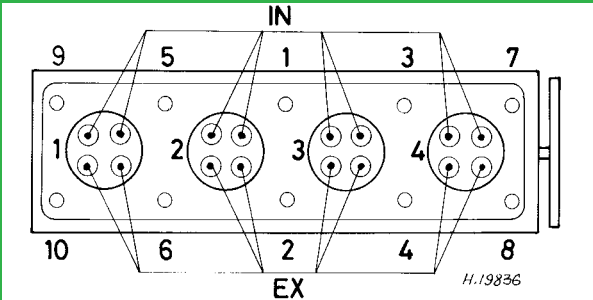
Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 180°
Cylinder head - stage 3	Nm	+ 180°
- stage 4	Nm	_
Big-end bearings	Nm	20 + 45°
Main bearings	Nm	WSM
Clutch cover	Nm	18
Flywheel [driveplate]	Nm	85 N
Front hubs	Nm	210
Rear hubs	Nm	90
Wheel nuts / bolts	Nm	60 to 75
Spark plugs	Nm	25

CapacitiesMetro / 114 1.4 GTi 16V & CAT1990 to 1993

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	4.5
Fuel tank	litres	33

Notes and Illustrations

¹CAT: 95 [U]
²MEMS AUU 1518 or MNE 10039: 13±2 BTDC @ idle. MNE 10050: 14±2 BTDC @ idle. CAT: 14±2 BTDC @ idle



1397 cm³, DOHC 16V