

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system216 16V1995 to 1997

Type		16K16 DOHC 16V
Capacity (cm ³) / number of cylinders		1589 / 4
Compression ratio / pressure	bar	10.5 / _
Oil pressure	bar	1.7 to 3.5
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	88±2
Radiator cap pressure	bar	0.90 to 1.20

Fuel system216 16V1995 to 1997

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 N/A
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		MEMS MPI
Main jet / needle		_
Injection pressure	bar	3.0±0.2
Pump pressure	bar	4.1
Octane rating	RON	95[U]

Ignition system216 16V1995 to 1997

Type		MEMS
Ignition coil		NEC 100630
Primary resistance	ohms	0.63 to 0.77
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10°±5° BTDC @ 875±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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
Type		GSP6662
Electrode gap	mm	0.85

Electrical system216 16V1995 to 1997

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		_ / 65 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear216 16V1995 to 1997

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

Tyres		
Saloon	Size	175/65x14: 185/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.1. 185/55: 2.3 / 2.1
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[-0°10'±15']
Camber		-0°20'±10'
Castor		2°±30'
King pin inclination		12°07'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[0°16'±20']
Camber		-0°20'±10'

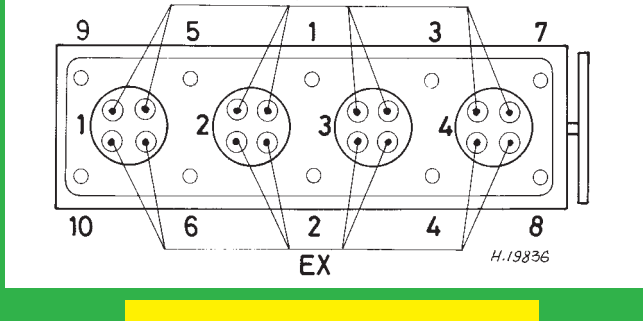
Torque wrench settings216 16V1995 to 1997

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	180 N
Rear hubs	Nm	180 N
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	27

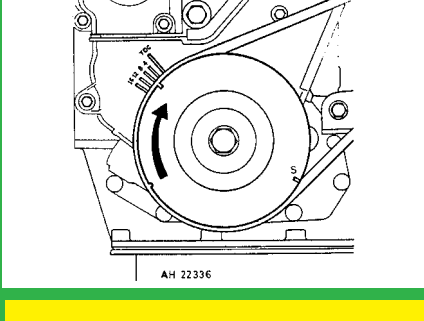
Capacities216 16V1995 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	4.5
Final drive	litres	WT
Cooling system	litres	4.7
Fuel tank	litres	50

Notes and Illustrations



1589 cm³ 16V



1589 cm³ 16V