

Engine & Cooling

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Automotive Technical
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Engine and cooling systemScimitar/Sabre SST 1.4i CAT1993 to 1996

Type		K16 DOHC 16V 77kW
Capacity (cm ³) / number of cylinders		1397 / 4
Compression ratio / pressure	bar	10.0 / _
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 systemScimitar/Sabre SST 1.4i CAT1993 to 1996

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.75 N/A
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		Indirect MPI with MEMS
Main jet / needle		_
Injection pressure	bar	3.0±0.2
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemScimitar/Sabre SST 1.4i CAT1993 to 1996

Type		MEMS
Ignition coil		AUU1326 or ADU8779
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	12.5±5 BTDC @ 875
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		GSP6652 / RC9YCC
Electrode gap	mm	0.85

Electrical systemScimitar/Sabre SST 1.4i CAT1993 to 1996

Battery	V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearScimitar/Sabre SST 1.4i CAT1993 to 1996

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

Tyres		
Saloon	Size	175/70x13: 185/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.7 / 1.7
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +1.6
Camber		0 to +1°
Castor		+4°
King pin inclination		+8°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0
Camber		0

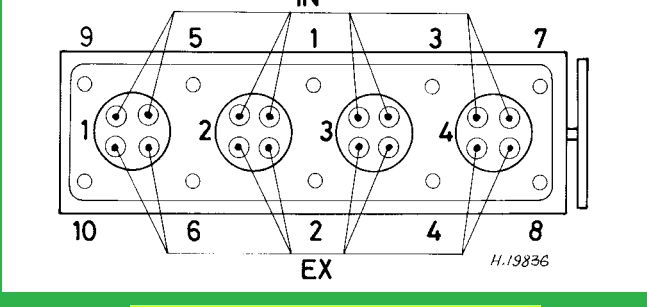
Torque wrench settingsScimitar/Sabre SST 1.4i CAT1993 to 1996

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	_
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	61 to 81
Spark plugs	Nm	25

CapacitiesScimitar/Sabre SST 1.4i CAT1993 to 1996

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	_
Final drive	litres	0.9
Cooling system	litres	_
Fuel tank	litres	45.4

Notes and Illustrations



1397 cm