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Automotive Technical DATA BOOK

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Engine and cooling system 825 Sterling V6 1996 to 1997

Type		KV6 24V DOHC
Capacity (cm ³) / number of cylinders		2497 / 6
Compression ratio / pressure	bar	10.5 / _
Oil pressure	bar	≥1.0 [≥3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-6-5-4-3-2
No 1 cylinder position		TGF
Thermostat opening temperature	°C	78 to 86
Radiator cap pressure	bar	1.05

Fuel system 825 Sterling V6 1996 to 1997

Idle speed - manual [auto]	rpm	750±50 N/A
Fast idle speed - manual [auto]	rpm	1000 to 2000 N/A
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_Rover
Type / ref		MEMS 2J MPI
Main jet / needle		_
Injection pressure	bar	3.0±0.2
Pump pressure	bar	3.2
Octane rating	RON	95[U]

Ignition system 825 Sterling V6 1996 to 1997

Type		MEMS
Ignition coil		NEC 10047
Primary resistance	ohms	0.40 to 0.61
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	15°±2° BTDC @ 750±50 N/A
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/Champion
Type		GSP6652 / RC7YCC
Electrode gap	mm	0.85

Electrical system 825 Sterling V6 1996 to 1997

Battery	V / CC / RC	12 / 680 / 135
Alternator voltage / full load current / engine rpm		12 / 100, 85 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear 825 Sterling V6 1996 to 1997

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

Tyres		
Saloon	Size	195/65x15: 205/55x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 1.8. Coupé: 2.2 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[0°±15']
Camber		0°24'±1°12' N/A
Castor		2°11'±2° N/A
King pin inclination		7°37'±1°12' N/A

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+0°22'±15']
Camber		0°18'±1°12' N/A

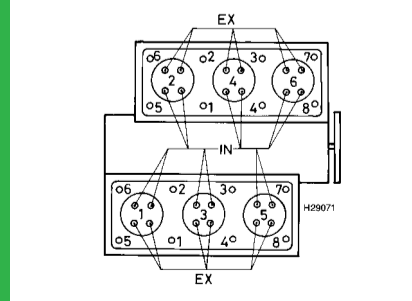
Torque wrench settings 825 Sterling V6 1996 to 1997

Cylinder head - stage 1	Nm	25 oiled
- stage 2	Nm	+90°
- stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	_
Main bearings	Nm	_
Clutch cover	Nm	23
Flywheel [driveplate]	Nm	100 N [75 N]
Front hubs	Nm	395
Rear hubs	Nm	245
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	27

Capacities 825 Sterling V6 1996 to 1997

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	3.2
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	68

Notes and Illustrations



2497 cm³, 24V