

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system 450 SE, SEAC 1989 to 1994

Type	- / TVR	239kW
Capacity (cm ³) / number of cylinders		4394 / 8
Compression ratio / pressure	bar	9.75 / ≥12.4
Oil pressure	bar	[2.1 to 2.8]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-8-4-3-6-5-7-2
No 1 cylinder position		FL
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.0

Fuel system 450 SE, SEAC 1989 to 1994

Idle speed - manual [auto]	rpm	950±50
Fast idle speed - manual [auto]	rpm	-
CO @ idle speed [3000 rpm] - see page VI	%	3.0 to 4.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	-
O ₂ @ idle speed [3000 rpm] - see page VI	%	-
Carburettor / fuel injection		Lucas
Type / ref		L electronic
Main jet / needle		-
Injection pressure	bar	-
Pump pressure	bar	2.5 to 2.9
Octane rating	RON	97[R]

Ignition system 450 SE, SEAC 1989 to 1994

Type		Electronic
Ignition coil		Lucas 35C5
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor		Lucas
Points gap (air gap)	mm	[≥0.15]
Dwell angle	° (%)	-
Condenser capacity	µF	-
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6 BTDC @ 600
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	30 BTDC @ 5500
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Centrifugal check.	° Crankshaft @ rpm	0 @ 800
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	28 to 30 @ 5000
Vacuum range check	mbar	67 to 367
Maximum vacuum advance	° Crankshaft	7 to 10
Spark plugs		NGK/Champion
Type		BP7ES / N7YC
Electrode gap	mm	0.60

Electrical system 450 SE, SEAC 1989 to 1994

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.6 to 14.4 / _ / 3000
Starter motor current / voltage - cranking	A / V	-
- locked	A / V	505 to 550 / _

Running gear 450 SE, SEAC 1989 to 1994

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	3.0
Tyres		
Saloon	Size	225/50x15
Estate / Van	Size	-
Pressure - front / rear - Saloon	bar	1.5 / 1.7
- Estate / Van	bar	-
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.2±1.5 ¹
Camber		0±0.5°
Castor		+3.5°±0.5°
King pin inclination		+6°
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.0±1.5
Camber		-1°±0.25°

Torque wrench settings 450 SE, SEAC 1989 to 1994

Cylinder head - stage 1	Nm	Nos 1 to 10: 102
- stage 2	Nm	Nos 11 to 14: 47
- stage 3	Nm	-
- stage 4	Nm	-
Big-end bearings	Nm	47
Main bearings	Nm	75
Clutch cover	Nm	27
Flywheel [driveplate]	Nm	81
Front hubs	Nm	WSM
Rear hubs	Nm	271
Wheel nuts / bolts	Nm	95
Spark plugs	Nm	15

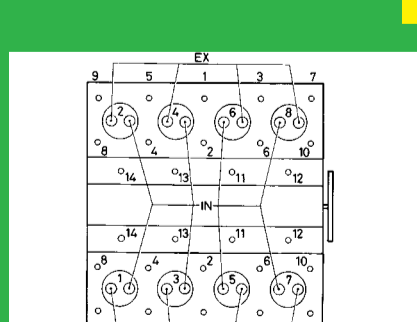
Capacities 450 SE, SEAC 1989 to 1994

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	-
Final drive	litres	1.5
Cooling system	litres	11.0
Fuel tank	litres	61

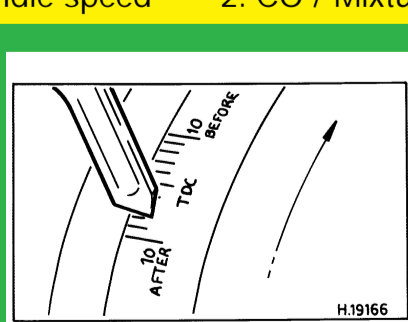
Notes and Illustrations

¹SEAC: +3.2±3.0

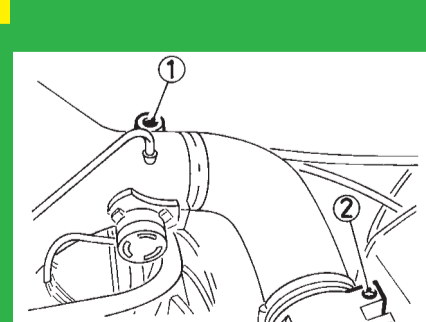
1: Idle speed 2: CO / Mixture



4394 cm³



4394 cm³



L electronic