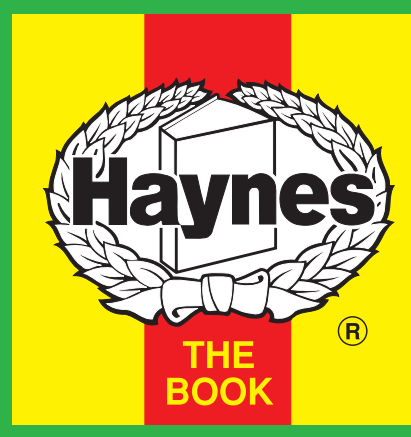


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

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HELP

Engine and cooling system Spider CAT 1990 to 1994

Type		015.88 DOHC 90kW
Capacity (cm ³) / number of cylinders		1962 / 4
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	90
Valve clearance - inlet	mm	0.38 to 0.45
Valve clearance - exhaust	mm	0.43 to 0.50
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	83±2
Radiator cap pressure	bar	1.0

Fuel system Spider CAT 1990 to 1994

Idle speed - manual [auto]	rpm	750 to 850
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		ML4.1-Motronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	2.8 to 3.2
Octane rating	RON	95[U]

Ignition system Spider CAT 1990 to 1994

Type		DME Motronic
Ignition coil		Bosch
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	Computer control N/A
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		Lodge/Champion
Type		2HL / N5C
Electrode gap	mm	Champion: 0.80

Electrical system Spider CAT 1990 to 1994

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.0 to 14.0 / 70 / 3000
Starter motor current / voltage - cranking	A / V	315 / 9.0
- locked	A / V	750 / 4.0

Running gear Spider CAT 1990 to 1994

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	195/60x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 2.0
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.0±1.0
Camber		+20'±30' U/L
Castor		+1°30'±30' U/L
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		_

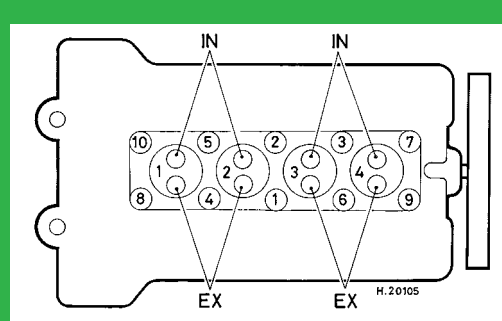
Torque wrench settings Spider CAT 1990 to 1994

Cylinder head - stage 1	Nm	74 to 82 gradually
- stage 2	Nm	After 1000km
Cylinder head - stage 3	Nm	- 360° in sequence
- stage 4	Nm	82 to 88
Big-end bearings	Nm	49 to 52 oiled
Main bearings	Nm	46 to 49 oiled
Clutch cover	Nm	20 to 25
Flywheel [driveplate]	Nm	113, LkC
Front hubs	Nm	_
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	95 to 105
Spark plugs	Nm	25 to 34 oiled

Capacities Spider CAT 1990 to 1994

Engine oil & filter	litres	5.6
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	_
Final drive	litres	1.4
Cooling system	litres	8.5
Fuel tank	litres	46

Notes and Illustrations

1962 cm³