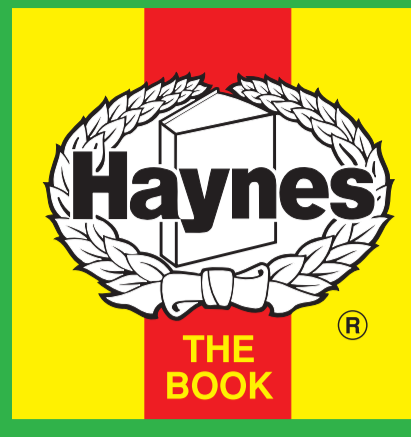


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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.

MENU **HELP**

Engine and cooling system Sierra & Sapphire 1.8i CAT 1992 to 1993

Type		R6A (CVH) 64kW US83
Capacity (cm ³) / number of cylinders		1769 / 4
Compression ratio / pressure	bar	9.3 / 11 to 13
Oil pressure	bar	1.0 [2.5]
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
Radiator cap pressure	bar	1.00 to 1.25

Fuel system Sierra & Sapphire 1.8i CAT 1992 to 1993

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	—
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		Bosch
Type / ref		EFHD CFI EEC IV
Main jet / needle		—
Injection pressure	bar	1.0±0.1
Pump pressure	bar	≥3.0
Octane rating	RON	95[U]

Ignition system Sierra & Sapphire 1.8i CAT 1992 to 1993

Type		DIS
Ignition coil		37kV High output
Primary resistance	ohms	0.50±0.05
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Motorcraft
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	—
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Motorcraft
Type		AGPR32CD1
Electrode gap	mm	1.00

Electrical system Sierra & Sapphire 1.8i CAT 1992 to 1993

Battery	V / CC / RC	12 / 200 / 70 or 250 / 80
Alternator voltage / full load current / engine rpm		13.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear Sierra & Sapphire 1.8i CAT 1992 to 1993

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.0
Tyres		
Saloon	Size	195/65x14: 185/65x14
Estate / Van	Size	195/65x14: 185/65x14
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	1.8 / 1.8
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0±1.0
Camber		-21'±1°. Est: -19'±1°
Castor		+1°52'.Est: +1°50' (+1°30'-1°)
King pin inclination		—
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	—
Camber		—

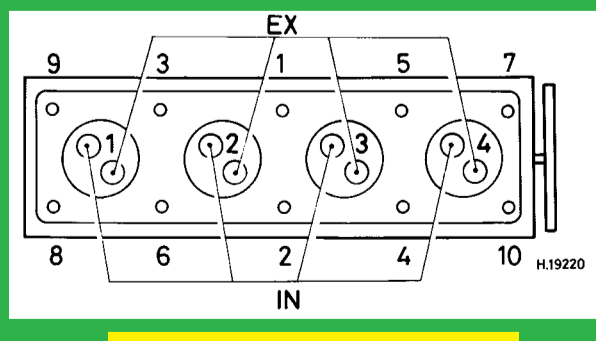
Torque wrench settings Sierra & Sapphire 1.8i CAT 1992 to 1993

Cylinder head - stage 1	Nm	40 to 60 N
- stage 2	Nm	- 180°
Cylinder head - stage 3	Nm	40 to 60 + 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	35 to 41
Main bearings	Nm	90 to 108
Clutch cover	Nm	20 to 25
Flywheel [driveplate]	Nm	73 to 91
Front hubs	Nm	310 to 350
Rear hubs	Nm	250 to 290
Wheel nuts / bolts	Nm	70 to 100
Spark plugs	Nm	17 to 33

Capacities Sierra & Sapphire 1.8i CAT 1992 to 1993

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	1.25
Automatic transmission - refill	litres	8.5
Final drive	litres	0.9
Cooling system	litres	8.7
Fuel tank	litres	60

Notes and Illustrations



1769 cm³