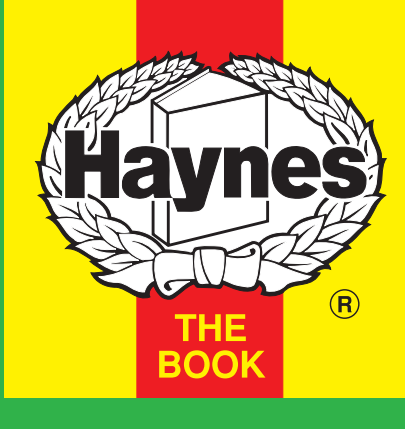


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
------------------	------	----------	------------	--------------	-----------------	------------	-----------------------



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 systemElan1990 to 1992

Type		4XE1-M DOHC 16V
Capacity (cm³) / number of cylinders		1588 / 4
Compression ratio / pressure	bar	9.8 / 12.6
Oil pressure	bar	0.35
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	—
Radiator cap pressure	bar	1.0

Fuel systemElan1990 to 1992

Idle speed - manual [auto]	rpm	900 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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		GM
Type / ref		MPI
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	2.1 to 3.8
Octane rating	RON	97[E 95 RON]

Ignition systemElan1990 to 1992

Type		Electronic
Ignition coil		—
Primary resistance	ohms	—
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	° Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		—
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		NGK
Type		BKR6E-11
Electrode gap	mm	1.10

Electrical systemElan1990 to 1992

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm		14.2 to 14.8 / 60 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearElan1990 to 1992

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	205/50x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0
Camber		-15'±15'
Castor		+1°+30'-0
King pin inclination		+10°±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±0.5 PW
Camber		-30'±15'

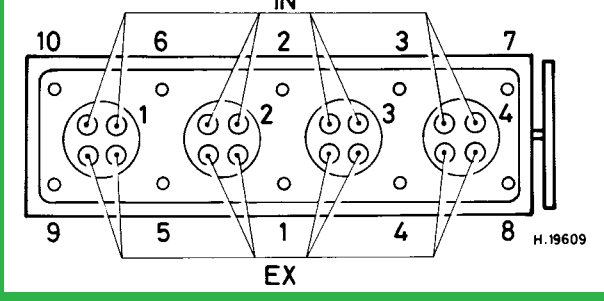
Torque wrench settingsElan1990 to 1992

Cylinder head - stage 1	Nm	40
- stage 2	Nm	78
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	15 + 45 to 60°
Main bearings	Nm	90
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	30 + 45 to 60°
Front hubs	Nm	225 to 235
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	80 to 88
Spark plugs	Nm	—

CapacitiesElan1990 to 1992

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.25
Fuel tank	litres	46

Notes and Illustrations



1588 cm³