

Engine & Cooling

Fuel

Ignition

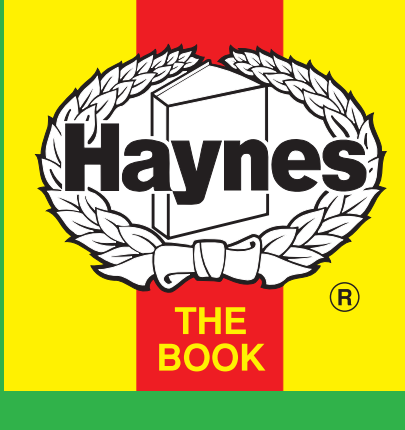
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

Colt/Lancer 1.8 GTi-16V CAT

1992 to 1995

Type		4G93 DOHC 16V
Capacity (cm ³) / number of cylinders		1836 / 4
Compression ratio / pressure	bar	10.5 / ≥11.5
Oil pressure	bar	—
Oil temperature	°C	—
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	76.5
Radiator cap pressure	bar	0.76 to 1.04

Fuel system

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1992 to 1995

Idle speed - manual [auto]	rpm	800±100
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Mitsubishi
Type / ref		ECI Multi MPI (E2T 38376)
Main jet / needle		—
Injection pressure	bar	2.6
Pump pressure	bar	3.3 to 3.5
Octane rating	RON	95[U]

Ignition system

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1992 to 1995

Type		DIS
Ignition coil		Moulded twin coil
Primary resistance	ohms	0.70 to 0.86
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	5±2 BTDC @ 800±100 N/A
V = Vacuum NV = No Vacuum		NV
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/Nippon Denso
Type		BKR6E-11 / K20PR-U11
Electrode gap	mm	1.00 to 1.10

Electrical system

Colt/Lancer 1.8 GTi-16V CAT

1992 to 1995

Battery	V / CC / RC	12 / 52Ah
Alternator voltage / full load current / engine rpm		13.9 to 14.9 / 49 / 2500
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

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1992 to 1995

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

Tyres		
Saloon	Size	185/60x14: 195/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 1.9
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber		0±30’
Castor		+2°15’±30’
King pin inclination		+12°49’

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0 to 5.0
Camber		-40’±30’

Torque wrench settings

Colt/Lancer 1.8 GTi-16V CAT

1992 to 1995

Cylinder head - stage 1	Nm	75
- stage 2	Nm	Slacken, then 20
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	20 + 90°
Main bearings	Nm	25 + 90°
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	100
Front hubs	Nm	200 to 260
Rear hubs	Nm	180
Wheel nuts / bolts	Nm	90 to 110
Spark plugs	Nm	20 to 30

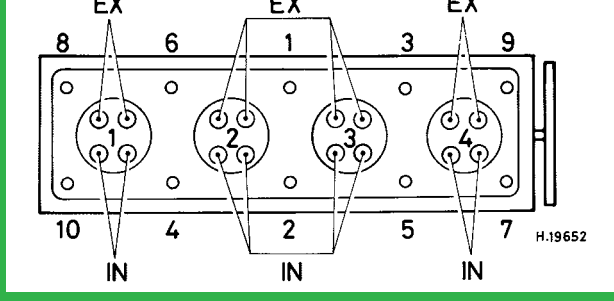
Capacities

Colt/Lancer 1.8 GTi-16V CAT

1992 to 1995

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	50

Notes and Illustrations



1836 cm³, 16V