

Engine & Cooling

Fuel

Ignition

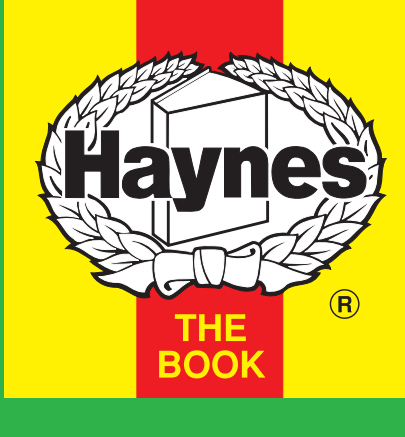
Electrical

Running gear

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

Colt, Lancer 1500 12V

1990 to 1993

Type		4G15-2 SOHC 12V
Capacity (cm ³) / number of cylinders		1468 / 4
Compression ratio / pressure	bar	9.2 / ≥9.6
Oil pressure	bar	—
Oil temperature	°C	—
Valve clearance - inlet	mm	0.15 H
Valve clearance - exhaust	mm	0.25 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.76 to 1.04

Fuel system

Colt, Lancer 1500 12V

1990 to 1993

Idle speed - manual [auto]	rpm	800±50 [850±50]
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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Aisan
Type / ref		VV type 51A [51B]
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	0.19 to 0.26
Octane rating	RON	98[E 95 RON]

Ignition system

Colt, Lancer 1500 12V

1990 to 1993

Type		Electronic
Ignition coil		In distributor
Primary resistance	ohms	0.9 to 1.2
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Mitsubishi
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	2±2 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1600
	° Crankshaft @ rpm	6 @ 3800
	° Crankshaft @ rpm	14 @ 6000
Vacuum range check	mbar	173 to 400
Maximum vacuum advance	° Crankshaft	15
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system

Colt, Lancer 1500 12V

1990 to 1993

Battery	V / CC / RC	12 / 101 / 348
Alternator voltage / full load current / engine rpm		13.9 to 14.9 / _ / 2500
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Colt, Lancer 1500 12V

1990 to 1993

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

Tyres		
Saloon	Size	155x13: 175/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.5
Camber		0±30'
Castor		+2°20'±30'
King pin inclination		+12°30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±2.25 PW
Camber		-40'±35'

Torque wrench settings

Colt, Lancer 1500 12V

1990 to 1993

Cylinder head - stage 1	Nm	35
- stage 2	Nm	70 to 75 C
Cylinder head - stage 3	Nm	80 to 85 H
- stage 4	Nm	—
Big-end bearings	Nm	32 to 35
Main bearings	Nm	50 to 55
Clutch cover	Nm	15 to 21
Flywheel [driveplate]	Nm	130 to 140
Front hubs	Nm	200 to 260
Rear hubs	Nm	150 to 200
Wheel nuts / bolts	Nm	90 to 110
Spark plugs	Nm	20 to 30

Capacities

Colt, Lancer 1500 12V

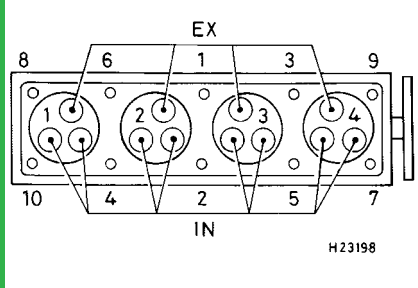
1990 to 1993

Engine oil & filter	litres	3.4
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	6.1
Final drive	litres	WT
Cooling system	litres	5.0
Fuel tank	litres	50

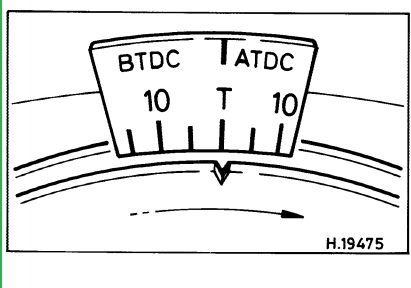
Notes and Illustrations

1: Idle speed

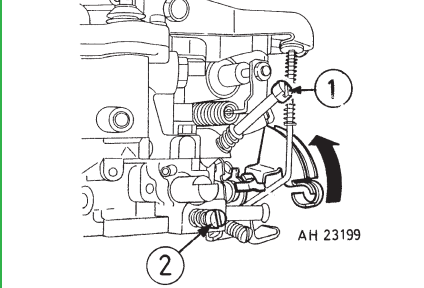
2: CO / Mixture



1468 cm³, 12V



1468 cm³



Aisan, 12V