

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemColt, Lancer 1800 GTi-16V1990 to 1993

Type		4G67-0 DOHC 16V
Capacity (cm³) / number of cylinders		1836 / 4
Compression ratio / pressure	bar	10.5 / ≥10.6
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	82
Radiator cap pressure	bar	0.76 to 1.04

Fuel systemColt, Lancer 1800 GTi-16V1990 to 1993

Idle speed - manual [auto]	rpm	850±100 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.5±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		Mitsubishi
Type / ref		MPI
Main jet / needle		—
Injection pressure	bar	2.6
Pump pressure	bar	3.2 to 3.5
Octane rating	RON	98[E 95 RON]

Ignition systemColt, Lancer 1800 GTi-16V1990 to 1993

Type		Electronic
Ignition coil		F-089
Primary resistance	ohms	0.77 to 0.95
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	5±2 BTDC @ idle
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/Champion
Type		BPR6ES / RN7YC
Electrode gap	mm	0.70 to 0.80

Electrical systemColt, Lancer 1800 GTi-16V1990 to 1993

Battery	V / CC / RC	12 / 101 / 348
Alternator voltage / full load current / engine rpm		13.4 to 14.9 / _ / 2500
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearColt, Lancer 1800 GTi-16V1990 to 1993

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	2.0 / 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 settingsColt, Lancer 1800 GTi-16V1990 to 1993

Cylinder head - stage 1	Nm	90 to 100 C
- stage 2	Nm	100 to 110 H
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	50 to 53
Main bearings	Nm	65 to 70
Clutch cover	Nm	15 to 22
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

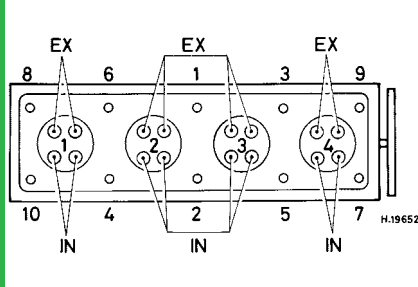
CapacitiesColt, Lancer 1800 GTi-16V1990 to 1993

Engine oil & filter	litres	4.4
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

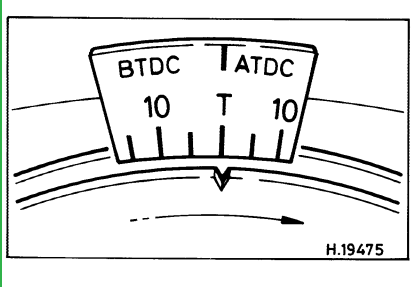
Notes and Illustrations



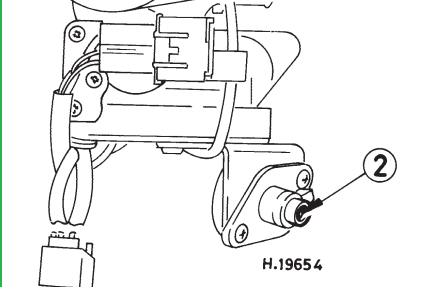
1: Idle speed 2: CO / Mixture



1836 cm³, 16V



1836 cm³



MPi