

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemGalant 2.0i V61993 to 1997

Type		6A12 DOHC 24V 110kW
Capacity (cm³) / number of cylinders		1999 / 6
Compression ratio / pressure	bar	10.0 / 12.5
Oil pressure	bar	—
Oil temperature	°C	—
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-2-3-4-5-6
No 1 cylinder position		—
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.75 to 1.05

Fuel systemGalant 2.0i V61993 to 1997

Idle speed - manual [auto]	rpm	700±100
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤15
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	3.3 to 3.5
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemGalant 2.0i V61993 to 1997

Type		Computerized
Ignition coil		Mitsubishi
Primary resistance	ohms	0.67 to 0.81
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±3 BTDC @ 700±100 WSM
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		PFR6J
Electrode gap	mm	1.00 to 1.10

Electrical systemGalant 2.0i V61993 to 1997

Battery	V / CC / RC	12 / 52Ah
Alternator voltage / full load current / engine rpm		13.9 to 14.9 / 90A
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearGalant 2.0i V61993 to 1997

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

Tyres		
Saloon	Size	195/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0.0±3.0
Camber		0±30'
Castor		4°20'±1°30'
King pin inclination		7°30'±1°30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	3.0±3.0
Camber		-1°10'±30'

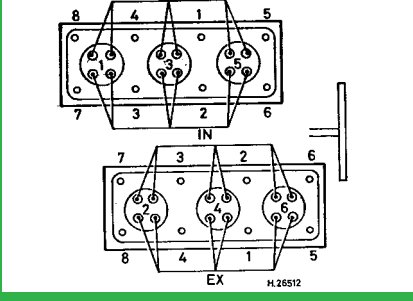
Torque wrench settingsGalant 2.0i V61993 to 1997

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	18 +90°
Main bearings	Nm	25 +90°
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	100
Front hubs	Nm	196 to 255
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	88 to 108
Spark plugs	Nm	25

CapacitiesGalant 2.0i V61993 to 1997

Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	2.1
Automatic transmission - refill	litres	6.0
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	64

Notes and Illustrations



1999 cm³, 24V