

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system		Sigma 3.0i 24V CAT	1991 to 1996
Type		6G72 24V	
Capacity (cm³) / number of cylinders		2972 / 6	
Compression ratio / pressure	bar	10.0 / ≥9.8	
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	0.76 to 1.04	
Fuel system		Sigma 3.0i 24V CAT	1991 to 1996
Idle speed - manual [auto]	rpm	700±100	
Fast idle speed - manual [auto]	rpm	—	
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3	
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		ECI-Multi (E2T 35784)	
Main jet / needle		—	
Injection pressure	bar	2.6	
Pump pressure	bar	3.2 to 3.5	
Octane rating	RON	95[U]	
Ignition system		Sigma 3.0i 24V CAT	1991 to 1996
Type		DIS	
Ignition coil		—	
Primary resistance	ohms	0.67 to 0.81	
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 @ 700±100 WSM	
V = Vacuum NV = No Vacuum		NV	
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-11	
Electrode gap	mm	1.00 to 1.10	
Electrical system		Sigma 3.0i 24V CAT	1991 to 1996
Battery	V / CC / RC	12 / 60Ah	
Alternator voltage / full load current / engine rpm		13.4 to 14.9 / 77 / 2500	
Starter motor current / voltage - cranking	A / V	—	
- locked	A / V	—	
Running gear		Sigma 3.0i 24V CAT	1991 to 1996
Brakes -			
Front (min. friction material thickness)	mm	2.0	
Rear (min. friction material thickness)	mm	2.0	
Tyres			
Saloon	Size	195/60x15: 205/65x15	
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±3.0	
Camber		0±30'	
Castor		+2°45'±30'	
King pin inclination		+13°15'	
Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	-2.5±0.5	
Camber		0±30'	
Torque wrench settings		Sigma 3.0i 24V CAT	1991 to 1996
Cylinder head - stage 1	Nm	120 to 130	
- stage 2	Nm	—	
Cylinder head - stage 3	Nm	—	
- stage 4	Nm	—	
Big-end bearings	Nm	52	
Main bearings	Nm	Mark 9: 80¹	
Clutch cover	Nm	15 to 22	
Flywheel [driveplate]	Nm	73 to 77	
Front hubs	Nm	200 to 260	
Rear hubs	Nm	230	
Wheel nuts / bolts	Nm	90 to 110	
Spark plugs	Nm	20 to 30	
Capacities		Sigma 3.0i 24V CAT	1991 to 1996
Engine oil & filter	litres	4.3	
Gearbox - 4-speed [5-speed]	litres	—	
Automatic transmission - refill	litres	4.5	
Final drive	litres	WT	
Cooling system	litres	8.0	
Fuel tank	litres	72	

Notes and Illustrations

¹Mark 10: 95

