MITSUBISHI

Sigma 3.0i 24V CAT

1991 to 1996

Haynes THE BOOK®

Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

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	ºC	_
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	ºC	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	º (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	º Crankshaft @ rpm	5±2 BTDC @ 700±100 WSM
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º 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 [º]	0±3.0
Camber		0±30’
Castor		+2°45’±30’
King pin inclination		+13°15’
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	-2.5±0.5
Camber		0±30’

Torque wrench settings

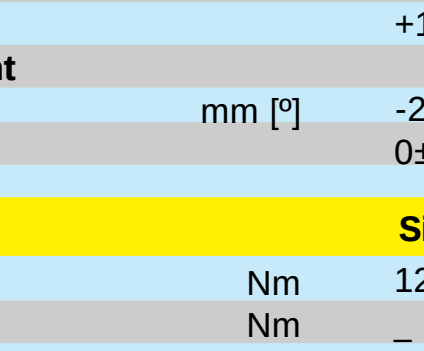
		Sigma 3.0i 24V CAT 1991 to 1996
Cylinder head - stage 1	Nm	120 to 130
- stage 2	Nm	_
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	52
Main bearings	Nm	Mark 9: 80[1]
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	73 to 77
Front hubs	Nm	200 to 260
Rear hubs	Nm	230
Wheel nuts / bolts	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

[1]**Mark 10: 95**



2972 cm³, 24V