

Engine & Cooling

Fuel

Ignition

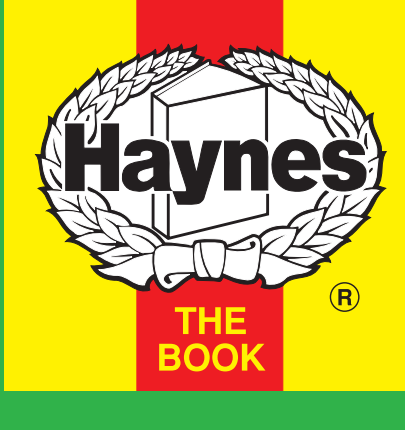
Electrical

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Automotive Technical
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Engine and cooling system

Shogun / Pajero 3.5i V6

1994 to 1997

Type		6G74 DOHC 24V V6 152kW
Capacity (cm³) / number of cylinders		3497 / 6
Compression ratio / pressure	bar	9.5 / _
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	0.8 to 1.0

Fuel system

Shogun / Pajero 3.5i V6

1994 to 1997

Idle speed - manual [auto]	rpm	700±50
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		MPI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

Shogun / Pajero 3.5i V6

1994 to 1997

Type		Electronic
Ignition coil		F504
Primary resistance	ohms	0.72 to 0.88
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±2 BTDC @ 700±50
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		PFR5J-11
Electrode gap	mm	1.00 to 1.10

Electrical system

Shogun / Pajero 3.5i V6

1994 to 1997

Battery	V / CC / RC	12 / 52Ah
Alternator voltage / full load current / engine rpm		13.9 to 14.9 / 75. AT: 90A
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

Shogun / Pajero 3.5i V6

1994 to 1997

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

Tyres		
Saloon	Size	265/70x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	1.8±1.8
Camber		40'±30
Castor		3°±1°
King pin inclination		14°52'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0.0
Camber		0.0

Torque wrench settings

Shogun / Pajero 3.5i V6

1994 to 1997

Cylinder head - stage 1	Nm	110
- stage 2	Nm	_
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	52
Main bearings	Nm	Mark 9: 80. Mark 10: 95
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	75
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	100 to 120
Spark plugs	Nm	25

Capacities

Shogun / Pajero 3.5i V6

1994 to 1997

Engine oil & filter	litres	4.9
Gearbox - 4-speed [5-speed]	litres	2.5. Transfer: 2.3
Automatic transmission - refill	litres	7.2
Final drive	litres	1.2. Rear: 2.6
Cooling system	litres	9.5
Fuel tank	litres	75. 5D: 92

Notes and Illustrations

