

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Shogun / Pajero 2.6

1983 to 1989

Type		4G54
Capacity (cm³) / number of cylinders		2555 / 4
Compression ratio / pressure	bar	8.3 / ≥10.3
Oil pressure	bar	–
Oil temperature	°C	–
Valve clearance - inlet	mm	0.15 H
Valve clearance - exhaust	mm	0.25 H
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.76 to 1.04

Fuel system

Shogun / Pajero 2.6

1983 to 1989

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	–
CO @ idle speed [3000 rpm] - see page VI	%	1.0±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		Mikuni
Type / ref		30-32 DIDTA-165
Main jet / needle		118.8, 170
Injection pressure	bar	–
Pump pressure	bar	–
Octane rating	RON	98[R]

Ignition system

Shogun / Pajero 2.6

1983 to 1989

Type		Contact breaker - CIS
Ignition coil		Diamond
Primary resistance	ohms	1.4
Ballast resistor	ohms	–
Voltage - Tmnl 15(+) to earth	V	–
Distributor		Mitsubishi
Points gap (air gap)	mm	0.45 to 0.55
Dwell angle	° (%)	29 to 35
Condenser capacity	µF	–
Rotation		Clockwise
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	0 @ 1200
	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	20 @ 6000
Vacuum range check	mbar	107 to 480
Maximum vacuum advance	° Crankshaft	20
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC4
Electrode gap	mm	0.70 to 0.80 ¹

Electrical system

Shogun / Pajero 2.6

1983 to 1989

Battery	V / CC / RC	12 / 70Ah or / 115 / 390
Alternator voltage / full load current / engine rpm		13.4 to 14.9 / _ / 2500
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	–

Running gear

Shogun / Pajero 2.6

1983 to 1989

Brakes -		
Front (min. friction material thickness)	mm	1.0 ²
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	–
Estate / Van	Size	215x15: 205x16
Pressure - front / rear - Saloon	bar	–
- Estate / Van	bar	1.6 / 2.0 ³

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	+1.0 to 4.5
Camber		+1°±30'
Castor		+2°57'±30'. 4D: +3°5'±30'
King pin inclination		–

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	0
Camber		0

Torque wrench settings

Shogun / Pajero 2.6

1983 to 1989

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	45 to 48
Main bearings	Nm	75 to 85
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	130 to 140
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	100 to 120
Spark plugs	Nm	20 to 30

Capacities

Shogun / Pajero 2.6

1983 to 1989

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.2 ⁴
Automatic transmission - refill	litres	7.2
Final drive	litres	Front: 1.1 ⁵
Cooling system	litres	8.0 ⁶
Fuel tank	litres	60. 4D: 92

Notes and Illustrations

¹Champion: 1.00 to 1.10

²1988 ►: 2.0

³►1986: 4D: 1.8 / 1.8. 1987 ►: 2D: 1.8 / 2.1. 4D: 2.1 / 2.

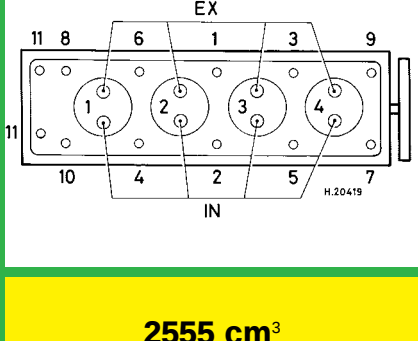
⁴Transfer box: 2.2. Transfer box with PTO: 2.6

⁵Rear: 1.8

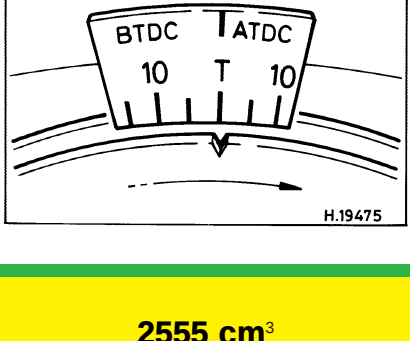
⁶With rear heater: 8.8

1: Idle speed

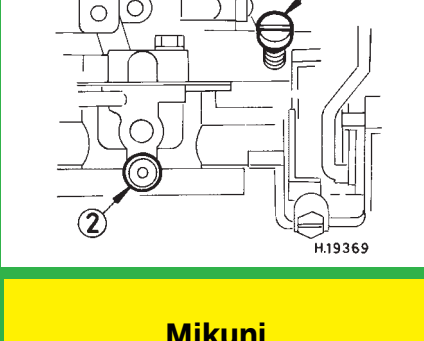
2: CO / Mixture



2555 cm³



2555 cm³



Mikuni