

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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## Automotive Technical DATA BOOK

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HELP

### Engine and cooling system Shogun / Pajero 2.6 1989 to 1991

Type		4G54
Capacity (cm <sup>3</sup> ) / number of cylinders		2555 / 4
Compression ratio / pressure	bar	8.4 / ≥8.2
Oil pressure	bar	–
Oil temperature	°C	–
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
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 1989 to 1991

Idle speed - manual [auto]	rpm	700±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
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	–
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	–
Carburettor / fuel injection		Mikuni
Type / ref		32-35 DIDTA-389
Main jet / needle		118.8, 170
Injection pressure	bar	–
Pump pressure	bar	–
Octane rating	RON	91[E 91 RON]

### Ignition system Shogun / Pajero 2.6 1989 to 1991

Type		Electronic
Ignition coil		E089
Primary resistance	ohms	1.08 to 1.32
Ballast resistor	ohms	1.22 to 1.48
Voltage - Tmnl 15(+) to earth	V	–
Distributor		Mitsubishi
Points gap (air gap)	mm	–
Dwell angle	° (%)	–
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 @ 1600
	° Crankshaft @ rpm	9 @ 2800
	° Crankshaft @ rpm	19 @ 6000
Vacuum range check	mbar	107 to 480
Maximum vacuum advance	° Crankshaft	20
Spark plugs		NGK/Champion
Type		BPR5ES / RN9YC
Electrode gap	mm	0.70 to 0.80

### Electrical system Shogun / Pajero 2.6 1989 to 1991

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 1989 to 1991

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0
<b>Tyres</b>		
Saloon	Size	–
Estate / Van	Size	215x15: 205x16
Pressure - front / rear - Saloon	bar	–
- Estate / Van	bar	<sup>1</sup>

### Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+2.75±1.75
Camber		+1°±30'
Castor		+2°55'±1°
King pin inclination		+8°

### Rear suspension / wheel alignment

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

### Torque wrench settings Shogun / Pajero 2.6 1989 to 1991

Cylinder head - stage 1	Nm	90 to 100 C
- stage 2	Nm	100 to 110 H
Cylinder head - stage 3	Nm	M8: 15 to 22
- 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 1989 to 1991

Engine oil & filter	litres	4.9
Gearbox - 4-speed [5-speed]	litres	2.2 <sup>2</sup>
Automatic transmission - refill	litres	7.2
Final drive	litres	Front: 1.1 <sup>3</sup>
Cooling system	litres	8.0 <sup>4</sup>
Fuel tank	litres	60. 4D: 92

### Notes and Illustrations

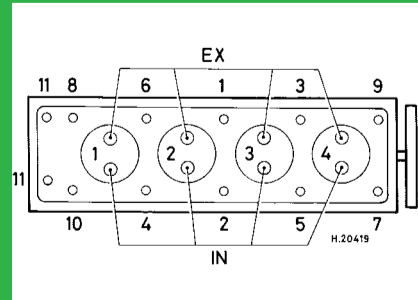
<sup>1</sup>215x15: 2D: 1.6 / 2.0. 4D: 1.8 / 1.8. 205x16: 2D: 1.8 / 2.2. 4D: 2.1 / 2.4

<sup>2</sup>Transfer box: 2.2. Transfer box with PTO: 2.6

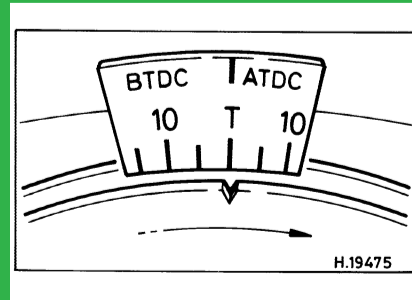
<sup>3</sup>Rear: 1.8. 4D MT: 2.6

<sup>4</sup>With rear heater: 8.8

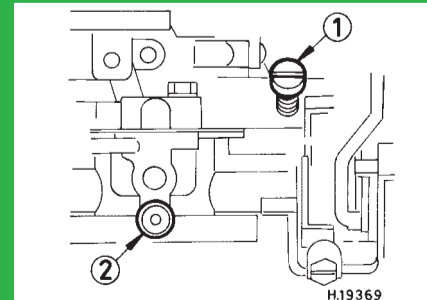
1: Idle speed    2: CO / Mixture



2555 cm<sup>3</sup>



2555 cm<sup>3</sup>



Mikuni