

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

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Engine and cooling system Land Cruiser 4.5 1995 to 1997

Type		1FZ-FE 24V 151kW
Capacity (cm ³) / number of cylinders		4477 / 6
Compression ratio / pressure	bar	9.0 / _
Oil pressure	bar	0.3 [2.5 to 4.9]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.15 to 0.25
- exhaust	mm	0.25 to 0.35
Firing order		1-5-3-6-2-4
No 1 cylinder position		TCE
Thermostat opening temperature	°C	74 to 78
Radiator cap pressure	bar	0.75 to 1.00

Fuel system Land Cruiser 4.5 1995 to 1997

Idle speed - manual [auto]	rpm	650±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5 WSM
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_Toyota
Type / ref		MPI
Main jet / needle		_
Injection pressure	bar	2.7 to 3.1
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system Land Cruiser 4.5 1995 to 1997

Type		Computerized
Ignition coil		_
Primary resistance	ohms	_
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	3 BTDC @ 650±50 WSM
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		Nippon Denso/NGK
Type		K16RU / BKR5EYA
Electrode gap	mm	0.80

Electrical system Land Cruiser 4.5 1995 to 1997

Battery	V / CC / RC	2x12 / 80Ah
Alternator voltage / full load current / engine rpm		14.0 to 15.0 / 55 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear Land Cruiser 4.5 1995 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0
Tyres		
Saloon	Size	_
Estate / Van	Size	275/70x16
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	2.2 / 2.2
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0±2.0
Camber		+1°±45'
Castor		3°±1°
King pin inclination		13°±45'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		_

Torque wrench settings Land Cruiser 4.5 1995 to 1997

Cylinder head - stage 1	Nm	39
- stage 2	Nm	+ 90°
- stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	48 + 90°
Main bearings	Nm	74 + 90°
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	100
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	147. Alloy: 103
Spark plugs	Nm	39

Capacities Land Cruiser 4.5 1995 to 1997

Engine oil & filter	litres	7.4
Gearbox - 4-speed [5-speed]	litres	_
Automatic transmission - refill	litres	2.7. Transfer: 1.8
Final drive	litres	Front: 2.7 Rear: 2.8
Cooling system	litres	13.2
Fuel tank	litres	95

Notes and Illustrations

