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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Land Cruiser Colorado 1996 to 1997

Type		5VZ-FE V6 24V DOHC
Capacity (cm ³) / number of cylinders		3378 / 6
Compression ratio / pressure	bar	_ / ≥10.2
Oil pressure	bar	0.3 [2.5 to 5.3]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.13 to 0.23
- exhaust	mm	0.27 to 0.37
Firing order		1-2-3-4-5-6
No 1 cylinder position		-
Thermostat opening temperature	°C	80
Radiator cap pressure	bar	0.75 to 1.0

Fuel system Land Cruiser Colorado 1996 to 1997

Idle speed - manual [auto]	rpm	700±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 Colorado 1996 to 1997

Type		Electronic
Ignition coil		-
Primary resistance	ohms	0.67 to 1.23
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	8° to 12° BTDC @ 700±50 ²
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		K16TR11 / BKR5EK-11
Electrode gap	mm	1.10

Electrical system Land Cruiser Colorado 1996 to 1997

Battery	V / CC / RC	-
Alternator voltage / full load current / engine rpm		14.8 / 80
Starter motor current / voltage - cranking	A / V	-
- locked	A / V	-

Running gear Land Cruiser Colorado 1996 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	265/70x16
Pressure - front / rear - Saloon	bar	-
- Estate / Van	bar	2.0 / 2.0
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	3.0±2.0
Camber		-0°05'±45'
Castor		2°45'±45'
King pin inclination		-
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-
Camber		-

Torque wrench settings Land Cruiser Colorado 1996 to 1997

Cylinder head - stage 1	Nm	34
- stage 2	Nm	+90°
- stage 3	Nm	+90°
- stage 4	Nm	-
Big-end bearings	Nm	25 +90°
Main bearings	Nm	61 +90°
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	85 (83) N
Front hubs	Nm	235
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18

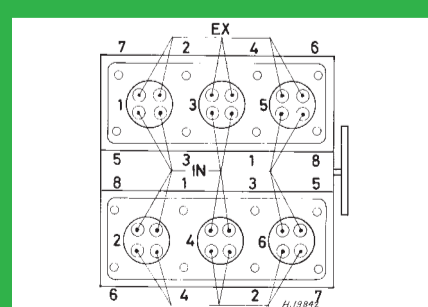
Capacities Land Cruiser Colorado 1996 to 1997

Engine oil & filter	litres	5.2
Gearbox - 4-speed [5-speed]	litres	2.2
Automatic transmission - refill	litres	2.0
Final drive	litres	Front: 1.1 Rear: 1.1 ¹
Cooling system	litres	8.0
Fuel tank	litres	-

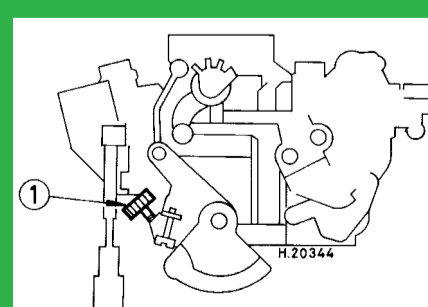
Notes and Illustrations

¹Transfer box: 1.2

² TE1 & E1 shorted



3378 cm³ 24V



3378 cm³ 24V