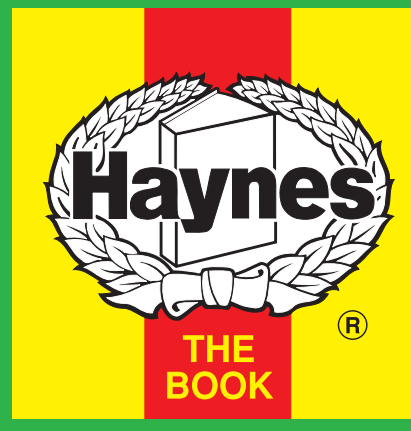


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system Cherokee / Grand Cherokee 4.0 1993 to 1997

Type		OHV 135kW
Capacity (cm ³) / number of cylinders		3960 / 6
Compression ratio / pressure	bar	8.75 / _
Oil pressure	bar	0.9 [2.6 to 5.2]
Oil temperature	°C	_
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-5-3-6-2-4
No 1 cylinder position		F
Thermostat opening temperature	°C	90
Radiator cap pressure	bar	0.83 to 1.10. Grand: 1.0 to 1.2

Fuel system Cherokee / Grand Cherokee 4.0 1993 to 1997

Idle speed - manual [auto]	rpm	720±100 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
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		_
Type / ref		MPSFI
Main jet / needle		_
Injection pressure	bar	2.14
Pump pressure	bar	2.69 to 2.83
Octane rating	RON	87[U]

Ignition system Cherokee / Grand Cherokee 4.0 1993 to 1997

Type		Electronic
Ignition coil		Diamond. Toyodenso
Primary resistance	ohms	0.97 to 1.18. Toyo: 0.95 to 1.20
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	Computer control N/A
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		Champion
Type		RC12LYC
Electrode gap	mm	0.88

Electrical system Cherokee / Grand Cherokee 4.0 1993 to 1997

Battery	V / CC / RC	12/430/80, 500/85, RHD: 650/93
Alternator voltage / full load current / engine rpm		13.9 to 15.0 / 75, 90, 120 / _
Starter motor current / voltage - cranking	A / V	75 / 11.5 (no load)
- locked	A / V	_

Running gear Cherokee / Grand Cherokee 4.0 1993 to 1997

Brakes -		
Front (min. friction material thickness)	mm	_
Rear (min. friction material thickness)	mm	_
Tyres		
Saloon	Size	_
Estate / Van	Size	215/75x15: 225/70x15 ²
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	2.1 / 2.1. 225: 2.1 / 2.4 ³
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±0.8. Grand: +1.8 PW
Camber		0+30'-45'
Castor		+6°+3°-1°
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.6 to -4.8
Camber		+1.6 to 2.4

Torque wrench settings Cherokee / Grand Cherokee 4.0 1993 to 1997

Cylinder head - stage 1	Nm	All except no.11: 149
- stage 2	Nm	No.11: 135
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	45
Main bearings	Nm	54, then 95, then 108
Clutch cover	Nm	54
Flywheel [driveplate]	Nm	143
Front hubs	Nm	Model 30: 237
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	109 to 150
Spark plugs	Nm	37

Capacities Cherokee / Grand Cherokee 4.0 1993 to 1997

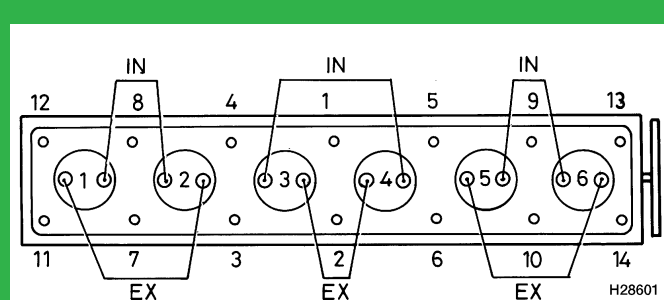
Engine oil & filter	litres	5.7
Gearbox - 4-speed [5-speed]	litres	AX-5: 3.5. AX-15: 2WD: 3.15 ¹
Automatic transmission - refill	litres	4.0
Final drive	litres	1.2. HD: 1.4
Cooling system	litres	11.4
Fuel tank	litres	76.4. Grand: 87.4

Notes and Illustrations

¹AX-15: 4x4: 3.2. Command-Trac transfer box: 1.0. Selec-Trac transfer box: 1.4. Grand: 3.8, Transfer: 1.18

²Grand: 225/70x16

³Grand with 225/70x16: 2.3 / 2.3



3960 cm³