

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 Trooper 3.2i 1993 to 1997

Type		6VD1 130kW
Capacity (cm ³) / number of cylinders		3165 / 6
Compression ratio / pressure	bar	9.3 / 10.7
Oil pressure	bar	[3.9 to 4.9]
Oil temperature	°C	50
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-4-2-5-3-6
No 1 cylinder position		PER
Thermostat opening temperature	°C	74 to 78
Radiator cap pressure	bar	0.90 to 1.20

Fuel system Trooper 3.2i 1993 to 1997

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.6
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		MPI
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system Trooper 3.2i 1993 to 1997

Type		DIS
Ignition coil		—
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	5 BTDC @ 750±50
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		NGK
Type		BPR6ES-11
Electrode gap	mm	1.00 to 1.10

Electrical system Trooper 3.2i 1993 to 1997

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm		14.2 to 14.8 / 60, 75 / 1900
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear Trooper 3.2i 1993 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	245/70x16
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	SWB: 2.1 / 2.3. LWB: 2.1 / 2.4

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±2.0
Camber		0±30'
Castor		+2°10'±45'
King pin inclination		+12°30'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	—
Camber		—

Torque wrench settings Trooper 3.2i 1993 to 1997

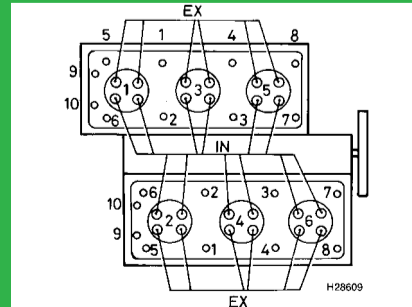
Cylinder head - stage 1	Nm	M8: 20
- stage 2	Nm	M11: 64
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	54
Main bearings	Nm	39
Clutch cover	Nm	16 to 20
Flywheel [driveplate]	Nm	54 to 64
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	118
Spark plugs	Nm	17 to 21

Capacities Trooper 3.2i 1993 to 1997

Engine oil & filter	litres	6.0
Gearbox - 4-speed [5-speed]	litres	3.0. Transfer: 1.5
Automatic transmission - refill	litres	8.6. Transfer: 0.8
Final drive	litres	Front: 1.5. Rear: 1.8
Cooling system	litres	8.5. AT: 8.8
Fuel tank	litres	85

Notes and Illustrations

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3165 cm³, 24V