

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemMaverick 2.4i1996 to 1997

Type		KA24E BF 96EEC ¹
Capacity (cm ³) / number of cylinders		2389 / 4
Compression ratio / pressure	bar	8.6 / 13.24
Oil pressure	bar	[4.1 to 4.8]
Oil temperature	°C	80
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	76.5
Radiator cap pressure	bar	0.78 to 0.98

Fuel systemMaverick 2.4i1996 to 1997

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	—
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		—
Type / ref		PCM EFI
Main jet / needle		—
Injection pressure	bar	2.26 to 2.94
Pump pressure	bar	—
Octane rating	RON	91[U]

Ignition systemMaverick 2.4i1996 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	10±2 BTDC @ ≤850
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		RN9YCC
Electrode gap	mm	0.80

Electrical systemMaverick 2.4i1996 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm		14 / 60, 65, 70/ —
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearMaverick 2.4i1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.52

Tyres		
Saloon	Size	—
Estate / Van	Size	235/75x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	SWB: 1.8 / 2.1. LWB: 1.8 / 2.2

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+3.0 to 5.0
Camber		+35'±30'
Castor		+1°10' to 2°10'
King pin inclination		+7°36' to 8°36'

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

Torque wrench settingsMaverick 2.4i1996 to 1997

Cylinder head - stage 1	Nm	29
- stage 2	Nm	78
Cylinder head - stage 3	Nm	- 360° (slacken)
- stage 4	Nm	29 + 83°
Big-end bearings	Nm	15 + 63°
Main bearings	Nm	49
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	147
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	123
Spark plugs	Nm	25

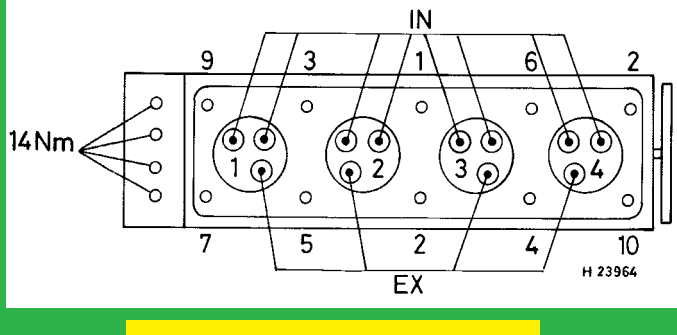
CapacitiesMaverick 2.4i1996 to 1997

Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	3.5. Transfer: 2.3
Automatic transmission - refill	litres	—
Final drive	litres	Front: 1.3. Rear: 2.8
Cooling system	litres	6.9
Fuel tank	litres	SWB: 72. LWB: 80

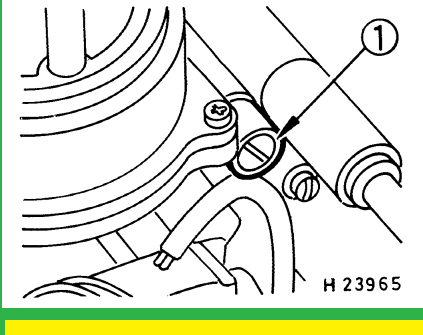
Notes and Illustrations

¹SWB: 84kW. LWB: 87kW

1: Idle speed 2: CO / Mixture



2389 cm³, 12V



PCM EFI