

Engine & Cooling

Fuel

Ignition

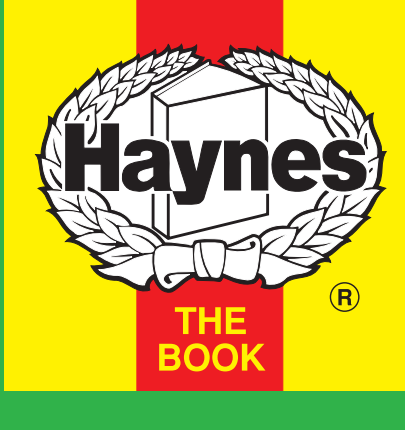
Electrical

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Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Xedos 9 2.5i

1994 to 1997

Type	KL DOHC 24V V6 125kW	
Capacity (cm ³) / number of cylinders	2497 / 6	
Compression ratio / pressure	bar	9.2 / ≥10.0
Oil pressure	bar	[3.4 to 5.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-2-3-4-5-6	
No 1 cylinder position	—	
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.95 to 1.25

Fuel system

Xedos 9 2.5i

1994 to 1997

Idle speed - manual [auto]	rpm	650±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	_Mazda	
Type / ref	MPI	
Main jet / needle	—	
Injection pressure	bar	2.9
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

Xedos 9 2.5i

1994 to 1997

Type	Electronic	
Ignition coil	—	
Primary resistance	ohms	0.49 to 0.73
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	9 to 11 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	—	
Type	—	
Electrode gap	mm	—

Electrical system

Xedos 9 2.5i

1994 to 1997

Battery	V / CC / RC	12 /
Alternator voltage / full load current / engine rpm	13.8 to 14.7 / 80A	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Xedos 9 2.5i

1994 to 1997

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

Tyres		
Saloon	Size	205/65x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	3.0±3.0
Camber	-11'±45'	
Castor	2°32'±45'	
King pin inclination	9°6'±45'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	3.0±3.0
Camber	-17'±45'	

Torque wrench settings

Xedos 9 2.5i

1994 to 1997

Cylinder head - stage 1	Nm	25 ¹
- stage 2	Nm	+90°
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	—
Big-end bearings	Nm	25 +90°
Main bearings	Nm	WSM
Clutch cover	Nm	18 to 26
Flywheel [driveplate]	Nm	61 to 67
Front hubs	Nm	236 to 318 N
Rear hubs	Nm	177 to 235 N
Wheel nuts / bolts	Nm	89 to 127
Spark plugs	Nm	15 to 22

Capacities

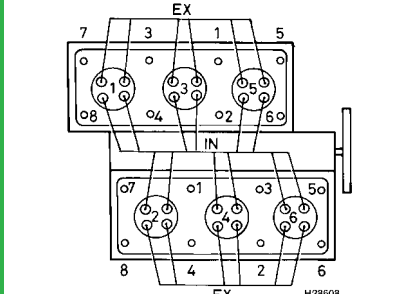
Xedos 9 2.5i

1994 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	8.8
Final drive	litres	WT
Cooling system	litres	—
Fuel tank	litres	68

Notes and Illustrations

¹Bolt length: 133.7 to 134.3mm below head



2497 cm³, 24V