

Engine & Cooling

Fuel

Ignition

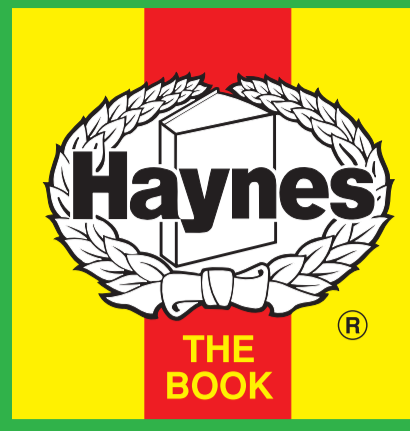
Electrical

Running gear

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Automotive Technical DATA BOOK

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Engine and cooling system 960 3.0i 24V 1990 to 1997

Type	B6304F DOHC 24V. 150kW ¹	
Capacity (cm ³) / number of cylinders	2922 / 6	
Compression ratio / pressure	bar	10.7 / 13.0 to 15.0
Oil pressure	bar	1.0 [3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order	1-5-3-6-2-4	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	87 to 102
Radiator cap pressure	bar	1.5

Fuel system 960 3.0i 24V 1990 to 1997

Idle speed - manual [auto]	rpm	750±20 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.4 to 0.8 N/A
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	Bosch	
Type / ref	M1.8-Motronic	
Main jet / needle	—	
Injection pressure	bar	3.00
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system 960 3.0i 24V 1990 to 1997

Type	Distributorless	
Ignition coil	1 coil per plug	
Primary resistance	ohms	0.5
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	° Crankshaft @ rpm	5±2 BTDC @ 750
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	Bosch/Champion	
Type	FR6DC / RC7YCC	
Electrode gap	mm	0.70 to 0.80

Electrical system 960 3.0i 24V 1990 to 1997

Battery	V / CC / RC	12 / 60Ah. 95 ▶: Various
Alternator voltage / full load current / engine rpm	13.5 to 14.5 / 120 / —	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear 960 3.0i 24V 1990 to 1997

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	195/65x15
Estate / Van	Size	195/65x15
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	1.9 / 2.1

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+18'±8']
Camber	0.1°±1°. 95 ▶: WSM	
Castor	+5°±1°. 95 ▶: +6°±30'	
King pin inclination	—	

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+2'±3']. 95 ▶: [+6'±8']
Camber	WSM	

Torque wrench settings 960 3.0i 24V 1990 to 1997

Cylinder head - stage 1	Nm	20
- stage 2	Nm	60
- stage 3	Nm	+ 130°
- stage 4	Nm	—
Big-end bearings	Nm	20 + 90°
Main bearings	Nm	110
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	45 + 65° [45 + 50°]
Front hubs	Nm	100 + 45°
Rear hubs	Nm	140 + 60°
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	25

Capacities 960 3.0i 24V 1990 to 1997

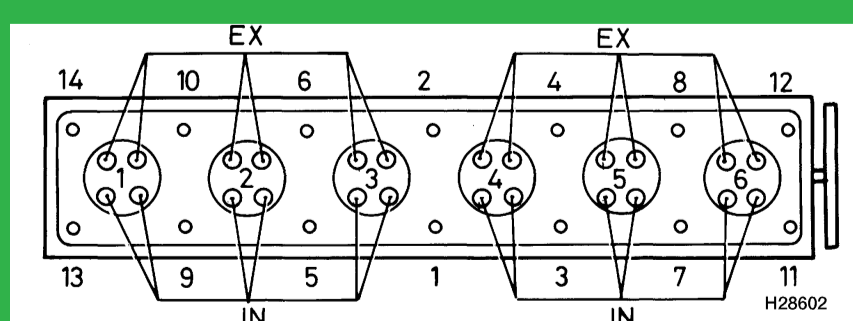
Engine oil & filter	litres	5.75
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	3.0
Final drive	litres	²
Cooling system	litres	10.7
Fuel tank	litres	80. 965: 60. 93 to 94: 75 ³

Notes and Illustrations

¹With air pump / EGR: 135kW

²965, to 94: 1031: 1.75. 1041: 1.45. 964, to 94: 1035: 1.4 1045: 1.3. 960, 95 ▶: 1055: 1.5. 1065: 1.35

³965: 95 ▶: 80



2922 cm³, 24V