

Engine & Cooling

Fuel

Ignition

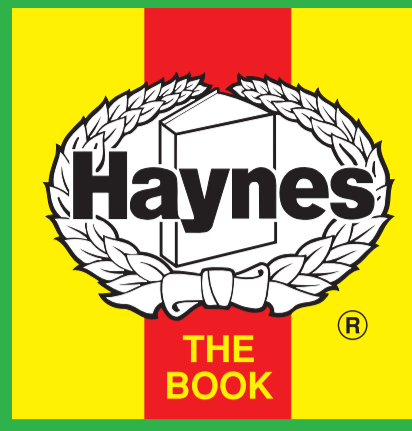
Electrical

Running gear

Torque settings

Capacities

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Automotive Technical DATA BOOK

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Engine and cooling system 623i 1993 to 1997

Type	H23A3 DOHC 16V 118kW	
Capacity (cm ³) / number of cylinders	2259 / 4	
Compression ratio / pressure	bar	9.8 / ≥9.3
Oil pressure	bar	0.7 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.07 to 0.11
Valve clearance - exhaust	mm	0.15 to 0.19
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	76 to 80
Radiator cap pressure	bar	0.93 to 1.23

Fuel system 623i 1993 to 1997

Idle speed - manual [auto]	rpm	770±50
Fast idle speed - manual [auto]	rpm	1400±200
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
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	Honda	
Type / ref	PGM-Fi	
Main jet / needle	-	
Injection pressure	bar	2.5 to 3.0
Pump pressure	bar	-
Octane rating	RON	95[U]

Ignition system 623i 1993 to 1997

Type	Computerized	
Ignition coil	-	
Primary resistance	ohms	0.6 to 0.8
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor	-	
Points gap (air gap)	mm	-
Dwell angle	° (%)	-
Condenser capacity	µF	-
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	15±2 BTDC @ 770±50
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	Unipart/Champion	
Type	GSP7664 / RC7YCC	
Electrode gap	mm	1.00 to 1.10

Electrical system 623i 1993 to 1997

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm	13.5 / 70, 80 / 3000	
Starter motor current / voltage - cranking	A / V	-
- locked	A / V	-

Running gear 623i 1993 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.6
Rear (min. friction material thickness)	mm	1.6
Tyres		
Saloon	Size	195/60x15
Estate / Van	Size	-
Pressure - front / rear - Saloon	bar	2.3 / 2.2
- Estate / Van	bar	-

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±3.0
Camber		0±1°
Castor		+3°±1°
King pin inclination		-

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0±2.0
Camber		-30'±30'

Torque wrench settings 623i 1993 to 1997

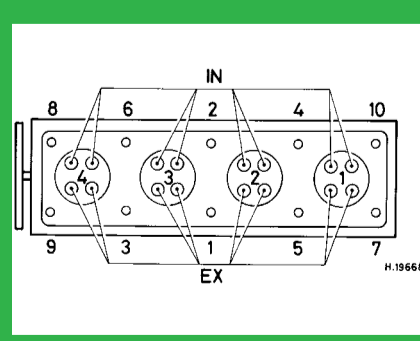
Cylinder head - stage 1	Nm	40 oiled
- stage 2	Nm	70
Cylinder head - stage 3	Nm	100
- stage 4	Nm	-
Big-end bearings	Nm	47
Main bearings	Nm	35, then 75 oiled
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	105 [75]
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18

Capacities 623i 1993 to 1997

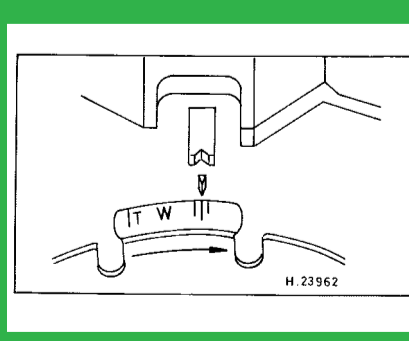
Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	7.0 [AT: 6.9]
Fuel tank	litres	65

Notes and Illustrations

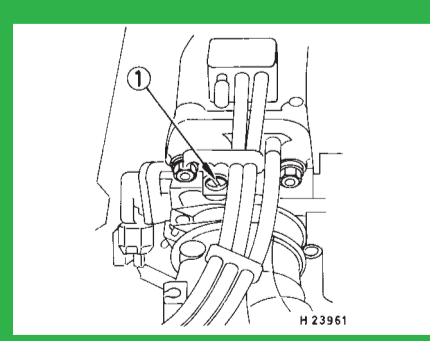
1: Idle speed 2: CO / Mixture



2259 cm³



2259 cm³



PGM-Fi