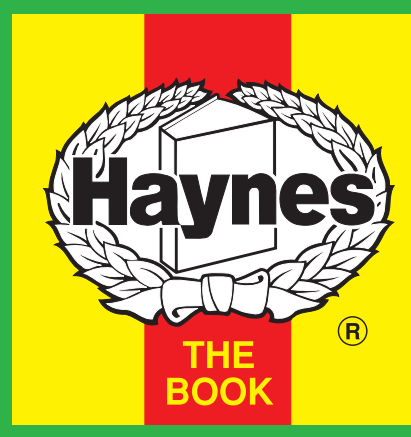


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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MENU

HELP

Engine and cooling system Concerto 1.6 DOHC 16V 1989 to 1991

Type	D16A9 [AT: D16Z4] DOHC 16V	
Capacity (cm ³) / number of cylinders	1590 / 4	
Compression ratio / pressure	bar	9.5 / ≥9.3
Oil pressure	bar	0.6 [3.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.12 to 0.17
Valve clearance - exhaust	mm	0.14 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	0.74 to 1.03

Fuel system Concerto 1.6 DOHC 16V 1989 to 1991

Idle speed - manual [auto]	rpm	800±50 [750±50]
Fast idle speed - manual [auto]	rpm	1000 to 2000
CO @ idle speed [3000 rpm] - see page VI	%	0.5+0.5-0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
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 MPI	
Main jet / needle	-	
Injection pressure	bar	2.45 to 2.55
Pump pressure	bar	2.5
Octane rating	RON	97[E 95 RON]

Ignition system Concerto 1.6 DOHC 16V 1989 to 1991

Type	Electronic	
Ignition coil	-	
Primary resistance	ohms	0.3 to 0.5
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor	-	
Points gap (air gap)	mm	[Equal gaps]
Dwell angle	° (%)	-
Condenser capacity	µF	-
Rotation	Clockwise	
Ignition timing - basic [static V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	16±2 BTDC @ idle
Total ignition advance	° Crankshaft @ rpm	-
	° 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/Champion	
Type	BCPR6E-11 / RC7YC	
Electrode gap	mm	1.00 to 1.10

Electrical system Concerto 1.6 DOHC 16V 1989 to 1991

Battery	V / CC / RC	12 / 300 / 47Ah
Alternator voltage / full load current / engine rpm	13.5 to 16.0 / _ / 2000	
Starter motor current / voltage - cranking	A / V	230 to 350 / 8.0 to 8.5
- locked	A / V	-

Running gear Concerto 1.6 DOHC 16V 1989 to 1991

Brakes -		
Front (min. friction material thickness)	mm	1.6
Rear (min. friction material thickness)	mm	1.6
Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	-
Pressure - front / rear - Saloon	bar	WSM
- Estate / Van	bar	-
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-0.7±1.4
Camber		-20'±30'
Castor		+3°±1°
King pin inclination		+7°35'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.3±1.4
Camber		-26'±30'

Torque wrench settings Concerto 1.6 DOHC 16V 1989 to 1991

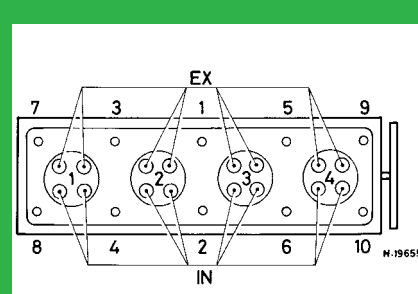
Cylinder head - stage 1	Nm	30 oiled
- stage 2	Nm	66
Cylinder head - stage 3	Nm	-
- stage 4	Nm	-
Big-end bearings	Nm	32
Main bearings	Nm	63 oiled
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	120
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18

Capacities Concerto 1.6 DOHC 16V 1989 to 1991

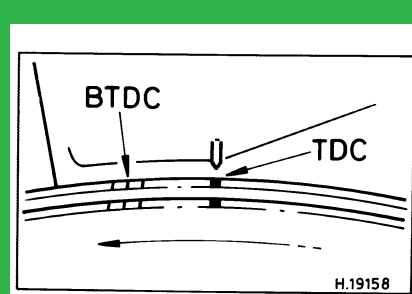
Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	5.5 [AT: 5.4]
Fuel tank	litres	55

Notes and Illustrations

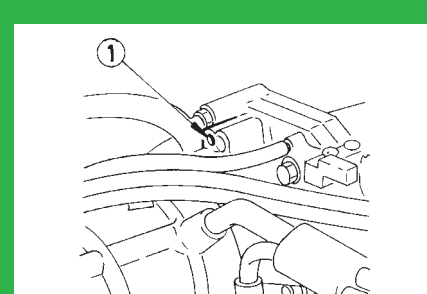
1: Idle speed 2: CO / Mixture



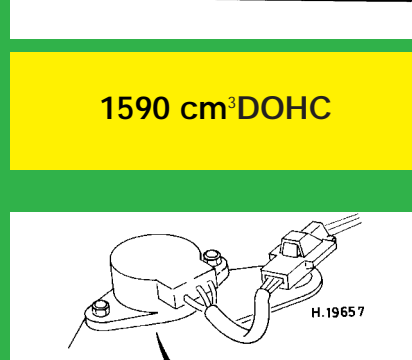
1590 cm³DOHC



1590 cm³DOHC



PGM-Fi



PGM-Fi