

Engine & Cooling

Fuel

Ignition

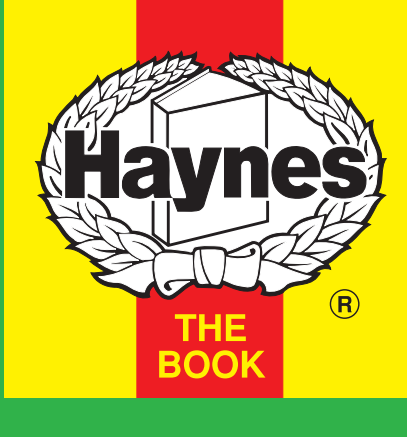
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling systemCivic 1.6i-16 & CRX1987 to 1992

Type		D16A9 DOHC 16V
Capacity (cm³) / number of cylinders		1590 / 4
Compression ratio / pressure	bar	9.5 / ≥9.3
Oil pressure	bar	1.4 [4.7]
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	78±2
Radiator cap pressure	bar	0.74 to 1.03

Fuel systemCivic 1.6i-16 & CRX1987 to 1992

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	1000 to 2000
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1
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		Honda
Type / ref		PGM-Fi
Main jet / needle		—
Injection pressure	bar	2.3 to 2.7
Pump pressure	bar	2.5
Octane rating	RON	97[E 95 RON]

Ignition systemCivic 1.6i-16 & CRX1987 to 1992

Type		Computerized
Ignition coil		—
Primary resistance	ohms	1.24 to 1.46
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	° Crankshaft @ rpm	16±2 BTDC @ idle
V = Vacuum NV = No Vacuum		V
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		BCPR6EY-11 / RC7YC4
Electrode gap	mm	1.00 to 1.10

Electrical systemCivic 1.6i-16 & CRX1987 to 1992

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.5 / 60 / 2000
Starter motor current / voltage - cranking	A / V	200 to 350 / 8.0
- locked	A / V	380 / 5.0

Running gearCivic 1.6i-16 & CRX1987 to 1992

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.6

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.9 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	0±2.0 ¹
Camber		0±1°. CRX: -10'±1°
Castor		+2°59'±1°. CRX: +2°55'±1°
King pin inclination		+7°34'. CRX: +12°55'

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	+2.0±2.0
Camber		-26'±1°. CRX: -45'±15'

Torque wrench settingsCivic 1.6i-16 & CRX1987 to 1992

Cylinder head - stage 1	Nm	30 oiled
- stage 2	Nm	65
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	32
Main bearings	Nm	58 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

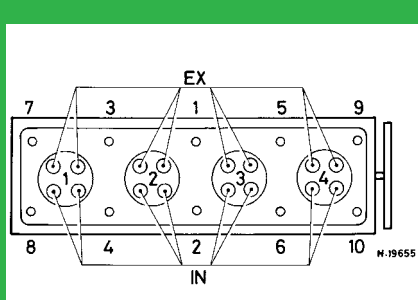
CapacitiesCivic 1.6i-16 & CRX1987 to 1992

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	1.8. CRX: 2.3
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	4.5
Fuel tank	litres	45

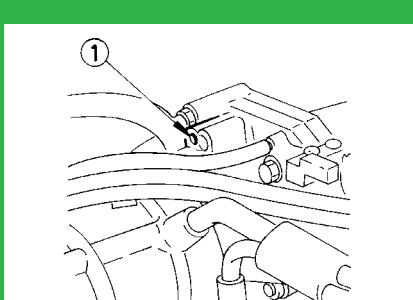
Notes and Illustrations

¹CRX: 0±3.0

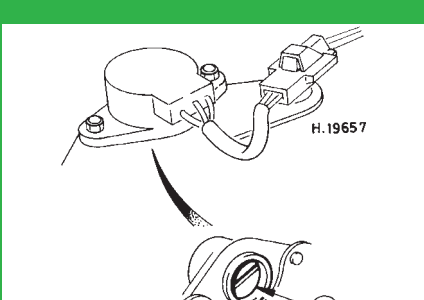
1: Idle speed 2: CO / Mixture



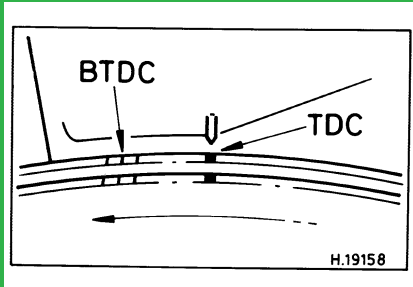
1590 cm³



PGM-Fi, 1590 cm³



PGM-Fi, 1590 cm³



1590 cm³