

Engine & Cooling

Fuel

Ignition

Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemCivic & CRX 1.6 VT CAT1990 to 1991

Type		B16A1 DOHC 16V VTEC
Capacity (cm ³) / number of cylinders		1595 / 4
Compression ratio / pressure	bar	10.2 / ≥9.3
Oil pressure	bar	0.7 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.15 to 0.19
Valve clearance - exhaust	mm	0.17 to 0.21
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 & CRX 1.6 VT CAT1990 to 1991

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	1600 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	2.5 to 2.6
Pump pressure	bar	2.5
Octane rating	RON	95[U]

Ignition systemCivic & CRX 1.6 VT CAT1990 to 1991

Type		Computerized
Ignition coil		—
Primary resistance	ohms	0.63 to 0.77
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Denso
Points gap (air gap)	mm	[equal gaps]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15±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		BKR6E-N11 / RC7YCC
Electrode gap	mm	1.00 to 1.10

Electrical systemCivic & CRX 1.6 VT CAT1990 to 1991

Battery	V / CC / RC	12 / 47Ah
Alternator voltage / full load current / engine rpm		13.5 to 16.0 / 70 / 2000
Starter motor current / voltage - cranking	A / V	280 to 350 / 8.0
- locked	A / V	380 / 5.0

Running gearCivic & CRX 1.6 VT CAT1990 to 1991

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

Tyres		
Saloon	Size	195/60x14
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
Camber		0±1°
Castor		+3°±1°
King pin inclination		—

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	+2.0+2.0-1.0
Camber		-30'±1°

Torque wrench settingsCivic & CRX 1.6 VT CAT1990 to 1991

Cylinder head - stage 1	Nm	30 oiled
- stage 2	Nm	85
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	105
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18

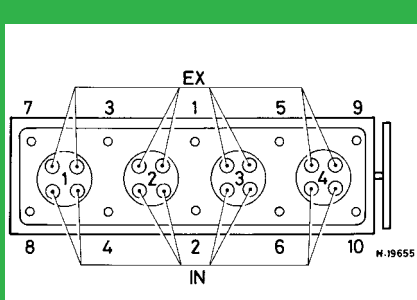
CapacitiesCivic & CRX 1.6 VT CAT1990 to 1991

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.1
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	4.7
Fuel tank	litres	45

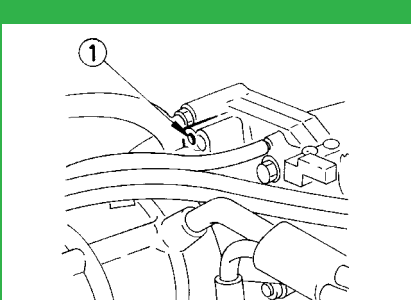
Notes and Illustrations



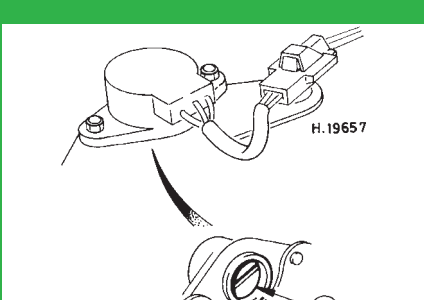
1: Idle speed 2: CO / Mixture



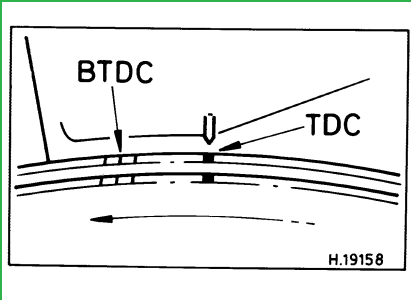
1595 cm³



PGM-Fi, 1595 cm³



PGM-Fi, 1595 cm³



1595 cm³