

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemCivic 1.5 VEi CAT1991 to 1995

Type		D15Z1 SOHC 16V VTEC-E 67kW
Capacity (cm ³) / number of cylinders		1493 / 4
Compression ratio / pressure	bar	9.3 / ≥11.5
Oil pressure	bar	0.7 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.18 to 0.22
Valve clearance - exhaust	mm	0.23 to 0.27
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.76 to 1.04

Fuel systemCivic 1.5 VEi CAT1991 to 1995

Idle speed - manual [auto]	rpm	600±50 [750±50]
Fast idle speed - manual [auto]	rpm	—
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 MPI
Main jet / needle		—
Injection pressure	bar	2.8 to 3.2
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemCivic 1.5 VEi CAT1991 to 1995

Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.6 to 0.8
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	—
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
Type		ZFR5F-11
Electrode gap	mm	1.1

Electrical systemCivic 1.5 VEi CAT1991 to 1995

Battery	V / CC / RC	12 / 47Ah
Alternator voltage / full load current / engine rpm		13.9 to 15.1 / 60 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearCivic 1.5 VEi CAT1991 to 1995

Brakes -		
Front (min. friction material thickness)	mm	1.6
Rear (min. friction material thickness)	mm	2.0. Discs: 1.6

Tyres		
Saloon	Size	175/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber		0±1°
Castor		+1°10'±1°
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0+2.0-1.0
Camber		-20'±1°

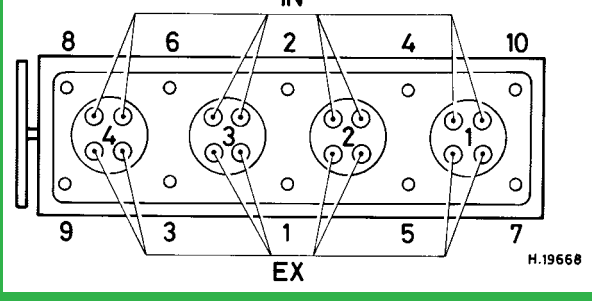
Torque wrench settingsCivic 1.5 VEi CAT1991 to 1995

Cylinder head - stage 1	Nm	30 oiled
- stage 2	Nm	73
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	32
Main bearings	Nm	45
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	120 [75]
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18

CapacitiesCivic 1.5 VEi CAT1991 to 1995

Engine oil & filter	litres	3.3
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	2.7
Final drive	litres	WT
Cooling system	litres	4.4
Fuel tank	litres	45

Notes and Illustrations



1493 cm³