

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemCivic 1.3 DX1987 to 1991

Type		D13B1 SOHC 16V
Capacity (cm³) / number of cylinders		1343 / 4
Compression ratio / pressure	bar	9.0 / ≥9.3
Oil pressure	bar	1.7 [5.1]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.17 to 0.22
Valve clearance - exhaust	mm	0.22 to 0.27
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	76 to 80
Radiator cap pressure	bar	0.76 to 1.04

Fuel systemCivic 1.3 DX1987 to 1991

Idle speed - manual [auto]	rpm	750±50 [700±50]
Fast idle speed - manual [auto]	rpm	1500 to 2500
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		Keihin
Type / ref		2V downdraught
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	0.07 to 0.23
Octane rating	RON	91[E 91 RON]

Ignition systemCivic 1.3 DX1987 to 1991

Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.38 to 0.46
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	18±2 BTDC @ idle
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	2 BTDC @ idle (NV)
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK/Champion
Type		BCPR6E-11 / RC9YC
Electrode gap	mm	1.00 to 1.10

Electrical systemCivic 1.3 DX1987 to 1991

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 1.3 DX1987 to 1991

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	155x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0¹
Camber		0±1°
Castor		+2°59'±1°
King pin inclination		+7°34'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±2.0²
Camber		-30'±1°³

Torque wrench settingsCivic 1.3 DX1987 to 1991

Cylinder head - stage 1	Nm	30 oiled
- stage 2	Nm	68
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 1.3 DX1987 to 1991

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	5.4 [AT: 5.3]
Fuel tank	litres	45

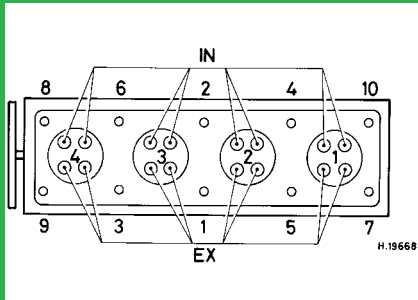
Notes and Illustrations

¹89 ▶: 0±2.0

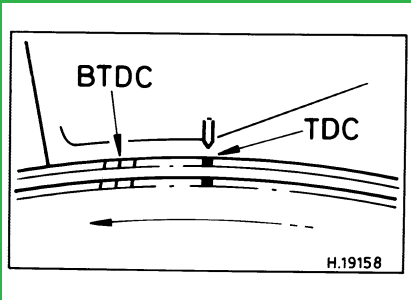
²89 ▶: +2.0+2.0-1.0

³89 ▶: -26'±1°

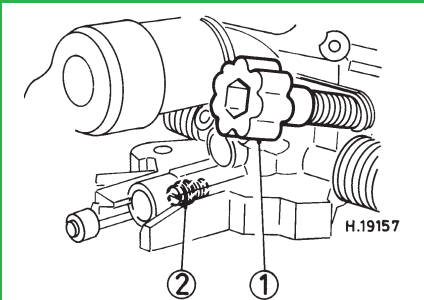
1: Idle speed 2: CO / Mixture



1343 cm³



1343 cm³



Keihin 2V