

Engine & Cooling

Fuel

Ignition

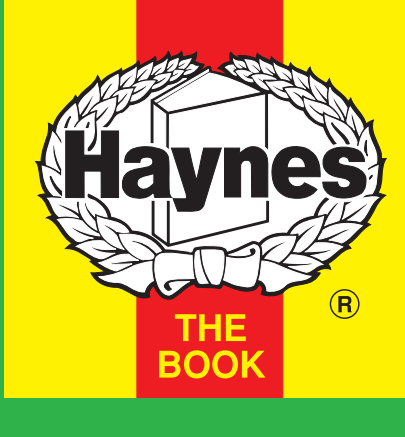
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling systemCivic, Shuttle & 4x4 14881984 to 1988

Type		EW 2
Capacity (cm ³) / number of cylinders		1488 / 4
Compression ratio / pressure	bar	8.7 / ≥10.3
Oil pressure	bar	[3.3 to 4.1]
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 78
Radiator cap pressure	bar	0.78 to 1.05

Fuel systemCivic, Shuttle & 4x4 14881984 to 1988

Idle speed - manual [auto]	rpm	700 to 800 [650 to 750]
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		—
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	0.18 to 0.27
Octane rating	RON	91[E 91 RON]

Ignition systemCivic, Shuttle & 4x4 14881984 to 1988

Type		Electronic
Ignition coil		—
Primary resistance	ohms	1.22 to 1.49
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	14±2 BTDC @ idle
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 800 to 1200
	° Crankshaft @ rpm	16 to 21 @ 3000
	° Crankshaft @ rpm	28 to 32 @ 5500
Vacuum range check	mbar	73 to 373
Maximum vacuum advance	° Crankshaft	9 to 11
Spark plugs		NGK/Champion
Type		BPR6EY-11 / RN9YC
Electrode gap	mm	1.00 to 1.10

Electrical systemCivic, Shuttle & 4x4 14881984 to 1988

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

Running gearCivic, Shuttle & 4x4 14881984 to 1988

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

Tyres		
Saloon	Size	165/70x13
Estate / Van	Size	155x13: 165x13
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	1.9 / 1.9

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber		0±1 ^{o1}
Castor		+2°20'±1 ^{o2}
King pin inclination		+12°50'±30 ^{’3}

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	+2.0±2.0 ⁴
Camber		-45'±15 ^{’5}

Torque wrench settingsCivic, Shuttle & 4x4 14881984 to 1988

Cylinder head - stage 1	Nm	30
- stage 2	Nm	60
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	28
Main bearings	Nm	50 oiled
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	105 [75]
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18

CapacitiesCivic, Shuttle & 4x4 14881984 to 1988

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	2.8. 86 ►: 2.4
Final drive	litres	WT ⁶
Cooling system	litres	5.2 ⁷
Fuel tank	litres	Civic & 4x4: 45 ⁸

Notes and Illustrations

¹Shuttle: +29'±1°. 86 ►: +16'. 4x4: +35'±1°

²Shuttle: +1°49'±1°. 4x4: +2°±1°

³Shuttle: +11°54'±30'. 4x4: +11°25'±30'

⁴4x4: 0±2.0

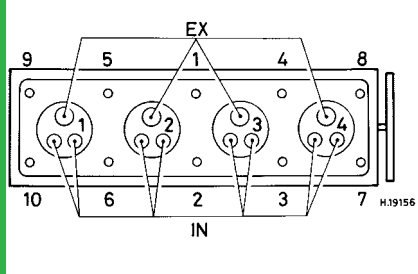
⁵4x4: 0±1°

⁶4x4 rear: 1.0

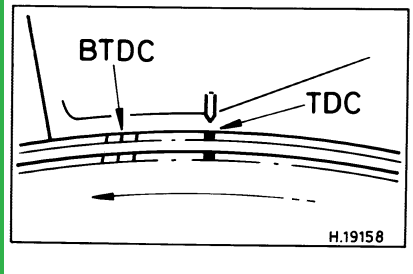
⁷86 ► & 4x4: 5.6 [AT: 5.9]

⁸Shuttle fwd: 46

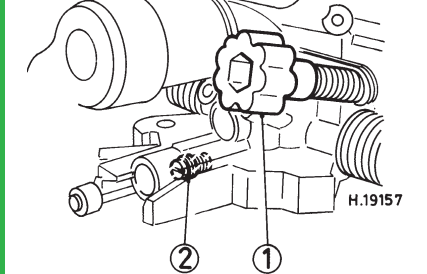
1: Idle speed2: CO / Mixture



1488 cm³



1488 cm³



Keihin, not CV