

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemPrelude 2.2i VTEC1994 to 1997

Type		H22A2 DOHC 16V VTEC 136kW
Capacity (cm ³) / number of cylinders		2156 / 4
Compression ratio / pressure	bar	10.0 / ≥9.5
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	76 to 80
Radiator cap pressure	bar	0.93 to 1.23

Fuel systemPrelude 2.2i VTEC1994 to 1997

Idle speed - manual [auto]	rpm	790±50
Fast idle speed - manual [auto]	rpm	1400±200
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1 N/A
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	2.5 to 3.0
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemPrelude 2.2i VTEC1994 to 1997

Type		Computerized
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 V = Vacuum NV = No Vacuum		15±2 BTDC @ 790±50
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		PZFR6F-11
Electrode gap	mm	1.00 to 1.10

Electrical systemPrelude 2.2i VTEC1994 to 1997

Battery	V / CC / RC	12 / 55, 65Ah
Alternator voltage / full load current / engine rpm		13.9 to 15.1 / 70, 90, 95 / 30
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearPrelude 2.2i VTEC1994 to 1997

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

Tyres		
Saloon	Size	205/55x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±2.0
Camber		0±1°
Castor		+2°40'±1°
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±2.0
Camber		-45'±30'

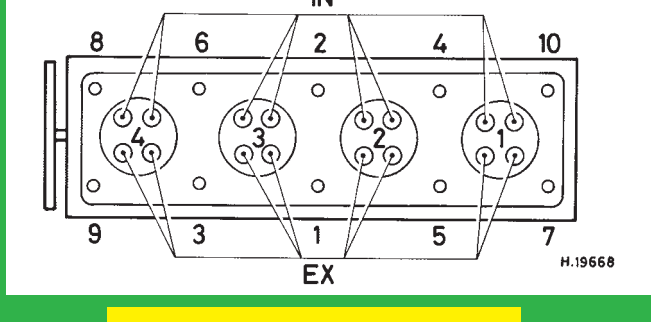
Torque wrench settingsPrelude 2.2i VTEC1994 to 1997

Cylinder head - stage 1	Nm	40 oiled
- stage 2	Nm	70
Cylinder head - stage 3	Nm	100
- stage 4	Nm	—
Big-end bearings	Nm	47
Main bearings	Nm	35, then 75 oiled
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	105 [75]
Front hubs	Nm	250
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18

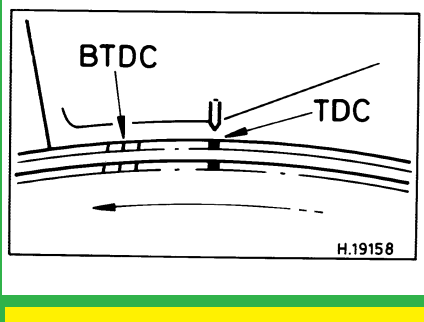
CapacitiesPrelude 2.2i VTEC1994 to 1997

Engine oil & filter	litres	4.8
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.8
Fuel tank	litres	60

Notes and Illustrations



2156 cm³



2156 cm³