

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemPrelude 4WS 2.0i-16 CAT1987 to 1992

Type		B20A9 DOHC 16V
Capacity (cm³) / number of cylinders		1958 / 4
Compression ratio / pressure	bar	9.4 / ≥9.3
Oil pressure	bar	1.4 [5.2 to 6.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.08 to 0.12
Valve clearance - exhaust	mm	0.16 to 0.20
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 systemPrelude 4WS 2.0i-16 CAT1987 to 1992

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	1000 to 1800
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
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	2.3 to 2.7
Pump pressure	bar	2.5
Octane rating	RON	95[U]

Ignition systemPrelude 4WS 2.0i-16 CAT1987 to 1992

Type		Computerized
Ignition coil		—
Primary resistance	ohms	1.2 to 1.5
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi/Toyo Denso
Points gap (air gap)	mm	[equal gaps]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15±2 BTDC @ idle¹
V = Vacuum NV = No Vacuum		NV
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		BCPR6EY-N11 / RC7YCC
Electrode gap	mm	1.00 to 1.10

Electrical systemPrelude 4WS 2.0i-16 CAT1987 to 1992

Battery	V / CC / RC	12 / 50 or 65Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearPrelude 4WS 2.0i-16 CAT1987 to 1992

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

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		+2°20'±30'
King pin inclination		+9°45'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±2.0
Camber		-20'±30'

Torque wrench settingsPrelude 4WS 2.0i-16 CAT1987 to 1992

Cylinder head - stage 1	Nm	30 oiled
- stage 2	Nm	68
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	45
Main bearings	Nm	55 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

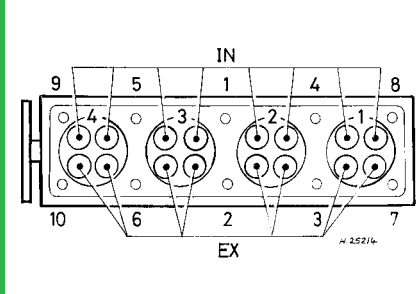
CapacitiesPrelude 4WS 2.0i-16 CAT1987 to 1992

Engine oil & filter	litres	3.9. 90 ▶: 3.8
Gearbox - 4-speed [5-speed]	litres	1.9. 90 ▶: 2.1
Automatic transmission - refill	litres	2.8
Final drive	litres	WT
Cooling system	litres	7.8
Fuel tank	litres	60

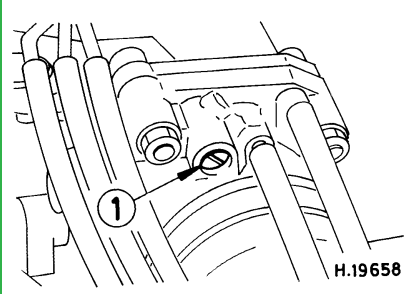
Notes and Illustrations

¹Sweden models: 20±2 BTDC @ idle [15±2 BTDC @ idle]

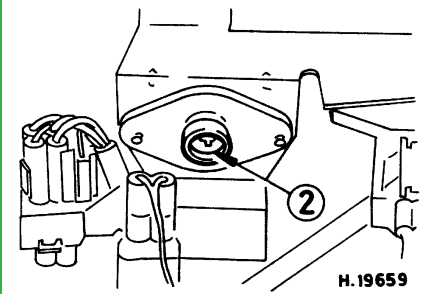
1: Idle speed2: CO / Mixture



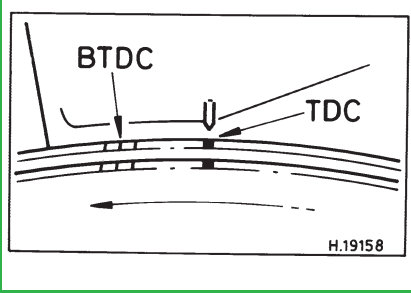
1958 cm³, DOHC



PGM-Fi



PGM-Fi



1958 cm³, DOHC