

Engine & Cooling

Fuel

Ignition

Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemPrelude 2.3i 16V CAT1992 to 1997

Type		H23A2 DOHC 16V 118kW
Capacity (cm ³) / number of cylinders		2259 / 4
Compression ratio / pressure	bar	9.8 / ≥9.5
Oil pressure	bar	0.7 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.07 to 0.11
Valve clearance - exhaust	mm	0.15 to 0.19
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	76 to 80
Radiator cap pressure	bar	0.95 to 1.25

Fuel systemPrelude 2.3i 16V CAT1992 to 1997

Idle speed - manual [auto]	rpm	780±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 2.3i 16V CAT1992 to 1997

Type		Computerized
Ignition coil		—
Primary resistance	ohms	0.6 to 0.8
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	15±2 BTDC @ 780±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/Champion
Type		ZFR6F-11 / RC7YCC
Electrode gap	mm	1.00 to 1.10

Electrical systemPrelude 2.3i 16V CAT1992 to 1997

Battery	V / CC / RC	12 / 52, 65Ah
Alternator voltage / full load current / engine rpm		13.9 to 15.1 / 70, 90 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearPrelude 2.3i 16V CAT1992 to 1997

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

Tyres		
Saloon	Size	195/60x14: 205/55x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- 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 2.3i 16V CAT1992 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	32
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

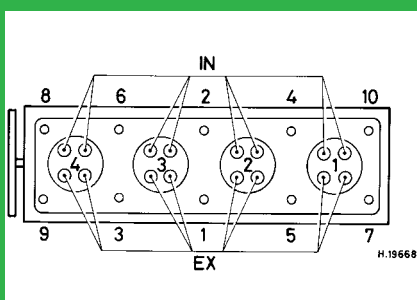
CapacitiesPrelude 2.3i 16V CAT1992 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	7.6 [7.3]
Fuel tank	litres	60

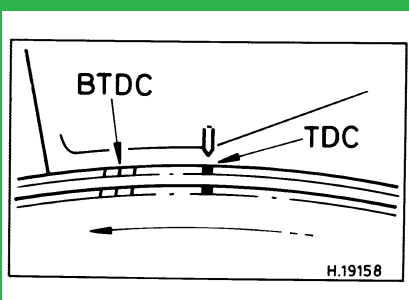
Notes and Illustrations



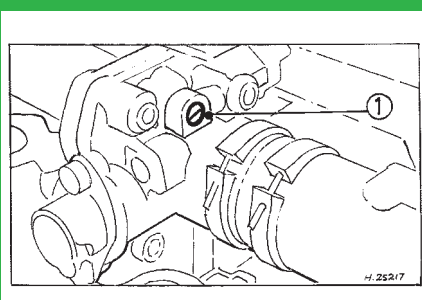
1: Idle speed 2: CO / Mixture



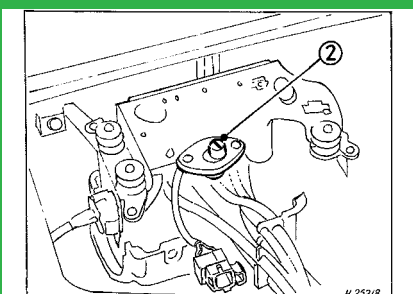
2259 cm³



2259 cm³



PGM-Fi, 2259 cm³



PGM-Fi, 2259 cm³