

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling system216, 416 DOHC 16V & CAT1990 to 1994

Type		D16A9 [AT: D16Z4]. CAT: D16A8
Capacity (cm³) / number of cylinders		1590 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	1.4 [4.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.13 to 0.17
Valve clearance - exhaust	mm	0.15 to 0.19
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	72 to 76
Radiator cap pressure	bar	0.9 to 1.0

Fuel system216, 416 DOHC 16V & CAT1990 to 1994

Idle speed - manual [auto]	rpm	800±50 [750±50], ECU control
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.5±0.3. CAT: ≤0.1
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
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	2.3 to 3.0
Pump pressure	bar	≤4.1
Octane rating	RON	95[E 95 RON] ¹

Ignition system216, 416 DOHC 16V & CAT1990 to 1994

Type		Computerized
Ignition coil		Unipart GCL161
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Honda
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	16±2 BTDC @ 800±50
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		Unipart/Champion
Type		XHM279, 281, 283, 285 / RC7YC
Electrode gap	mm	1.00±0.05

Electrical system216, 416 DOHC 16V & CAT1990 to 1994

Battery	V / CC / RC	12 / 360 / 60
Alternator voltage / full load current / engine rpm		13.9 to 15.1 / 60 / 2750
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear216, 416 DOHC 16V & CAT1990 to 1994

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

Tyres		
Saloon	Size	175/65x14: 185/60x14 ²
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2 ³
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[-10'±15'] U/L
Camber		-20'±10' U/L
Castor		+1°59'±30' U/L
King pin inclination		+12° U/L

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+11'±7.5'] PW U/L
Camber		-50' to +50' U/L

Torque wrench settings216, 416 DOHC 16V & CAT1990 to 1994

Cylinder head - stage 1	Nm	30
- stage 2	Nm	65
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	32
Main bearings	Nm	67 oiled
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	120 [75]
Front hubs	Nm	185
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	18

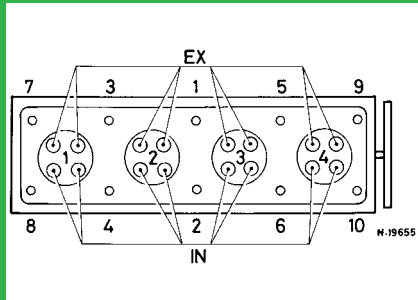
Capacities216, 416 DOHC 16V & CAT1990 to 1994

Engine oil & filter	litres	3.4
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	55

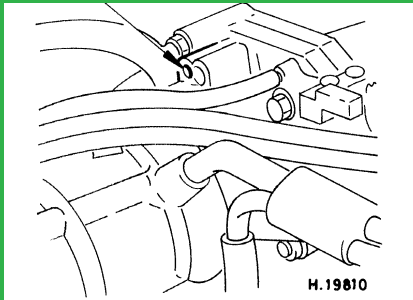
Notes and Illustrations

- ¹CAT: 95 [U]
- ²175/70x14: 185/55x15
- ³175/65x14: 175/70x14: 2.1 / 2.1

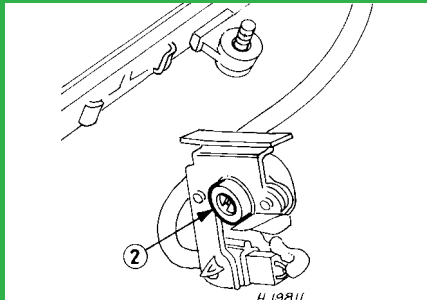
1: Idle speed 2: CO / Mixture



1590 cm³, DOHC



PGM-Fi



PGM-Fi