

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system416i AT1995 to 1997

Type		D16 SOHC 16V 83kW
Capacity (cm ³) / number of cylinders		1590 / 4
Compression ratio / pressure	bar	9.1 /
Oil pressure	bar	1.4
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 80
Radiator cap pressure	bar	1.0 to 1.3

Fuel system416i AT1995 to 1997

Idle speed - manual [auto]	rpm	[750±50] N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
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
Pump pressure	bar	4.1
Octane rating	RON	91[U]

Ignition system416i AT1995 to 1997

Type		Electronic
Ignition coil		GCL 161
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	16±2 BTDC @ 750±50
V = Vacuum NV = No Vacuum		V
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		Unipart
Type		GSP5658
Electrode gap	mm	1.10

Electrical system416i AT1995 to 1997

Battery	V / CC / RC	12 / 36Ah
Alternator voltage / full load current / engine rpm		13.5 / 75A
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear416i AT1995 to 1997

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

Tyres		
Saloon	Size	185/60x14: 185/55x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0°±0°12’]
Camber		0°±1°
Castor		1°28’
King pin inclination		10°41’

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+11’±6’] PW
Camber		-55’

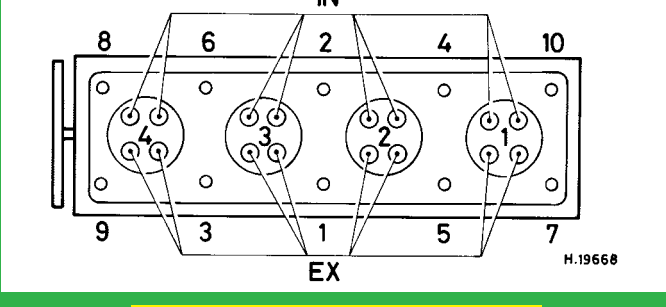
Torque wrench settings416i AT1995 to 1997

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	—
Flywheel [driveplate]	Nm	[75]
Front hubs	Nm	181
Rear hubs	Nm	181
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	18

Capacities416i AT1995 to 1997

Engine oil & filter	litres	3.3
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	2.7
Final drive	litres	WT
Cooling system	litres	4.4
Fuel tank	litres	55

Notes and Illustrations



1590 cm³, SOHC