

Engine & Cooling

Fuel

Ignition

Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemIntegra EX 161986 to 1990

Type		D16 A2 DOHC 16V
Capacity (cm ³) / number of cylinders		1590 / 4
Compression ratio / pressure	bar	9.3 / ≥11.3
Oil pressure	bar	[4.1 to 5.4]
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	76 to 78
Radiator cap pressure	bar	0.76 to 1.04

Fuel systemIntegra EX 161986 to 1990

Idle speed - manual [auto]	rpm	800±50 [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	97[E 95 RON]

Ignition systemIntegra EX 161986 to 1990

Type		Electronic
Ignition coil		—
Primary resistance	ohms	1.24 to 1.46
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	20±2 BTDC @ idle
V = Vacuum NV = No Vacuum		—
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		BCPR6E-11 / RN7YC
Electrode gap	mm	1.00 to 1.10

Electrical systemIntegra EX 161986 to 1990

Battery	V / CC / RC	12 / 40 or 45Ah
Alternator voltage / full load current / engine rpm		13.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearIntegra EX 161986 to 1990

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

Tyres		
Saloon	Size	185/70x13: 185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-1.0
Camber		-30'
Castor		+2°11'
King pin inclination		+13°21'

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

Torque wrench settingsIntegra EX 161986 to 1990

Cylinder head - stage 1	Nm	30 oiled
- stage 2	Nm	65
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	32
Main bearings	Nm	58 oiled
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	120
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18

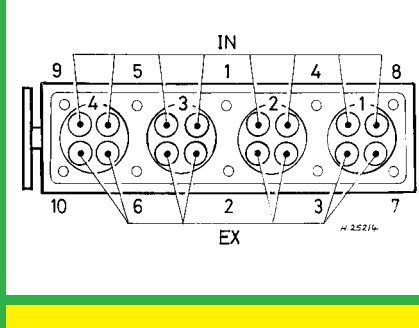
CapacitiesIntegra EX 161986 to 1990

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	5.6 [AT: 5.5]
Fuel tank	litres	50

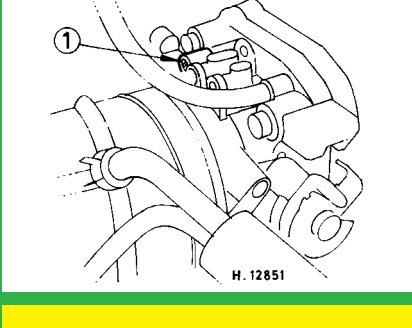
Notes and Illustrations



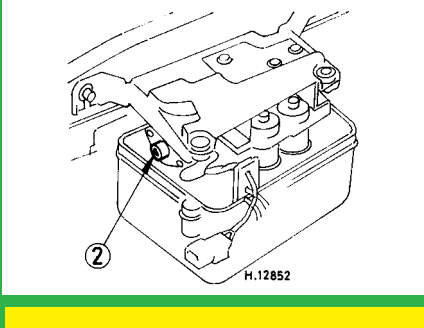
1: Idle speed2: CO / Mixture



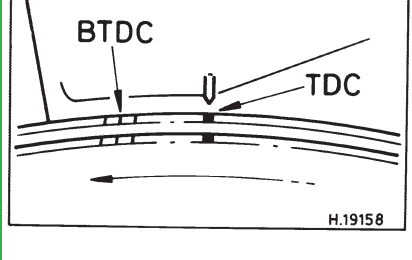
1590 cm³DOHC



PGM-Fi



PGM-Fi



1590 cm³DOHC