

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemIntegra DX, LX1986 to 1990

Type		D15 A1
Capacity (cm ³) / number of cylinders		1488 / 4
Compression ratio / pressure	bar	8.7 / ≥9.8
Oil pressure	bar	[3.3 to 4.1]
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 78
Radiator cap pressure	bar	0.76 to 1.04

Fuel systemIntegra DX, LX1986 to 1990

Idle speed - manual [auto]	rpm	750±50 [700±50] PAS + 50 rpm
Fast idle speed - manual [auto]	rpm	1500 to 2500
CO @ idle speed [3000 rpm] - see page VI	%	≤1.0
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		Keihin
Type / ref		2V downdraught
Main jet / needle		120
Injection pressure	bar	—
Pump pressure	bar	0.18 to 0.27
Octane rating	RON	91[E 91 RON]

Ignition systemIntegra DX, LX1986 to 1990

Type		Electronic
Ignition coil		—
Primary resistance	ohms	1.22 to 1.49
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	14±2 BTDC @ idle
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 800 to 1200
	° Crankshaft @ rpm	16 to 21 @ 3000
	° Crankshaft @ rpm	28 to 32 @ 5500
Vacuum range check	mbar	73 to 373
Maximum vacuum advance	° Crankshaft	9 to 11
Spark plugs		NGK/Champion
Type		BPR6EY-11 / RN9YC
Electrode gap	mm	1.00 to 1.10

Electrical systemIntegra DX, LX1986 to 1990

Battery	V / CC / RC	12 / 47Ah
Alternator voltage / full load current / engine rpm		13.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearIntegra DX, LX1986 to 1990

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

Tyres		
Saloon	Size	185/70x13
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 DX, LX1986 to 1990

Cylinder head - stage 1	Nm	30 oiled
- stage 2	Nm	60
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	28
Main bearings	Nm	50 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

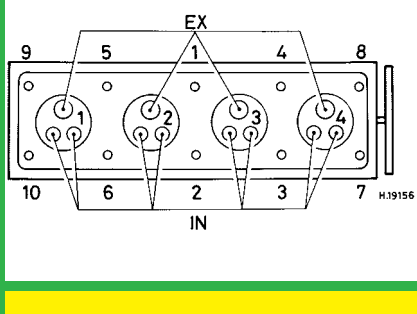
CapacitiesIntegra DX, LX1986 to 1990

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

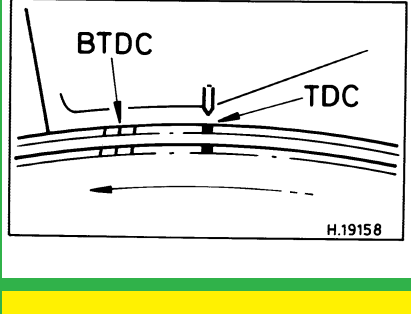
Notes and Illustrations



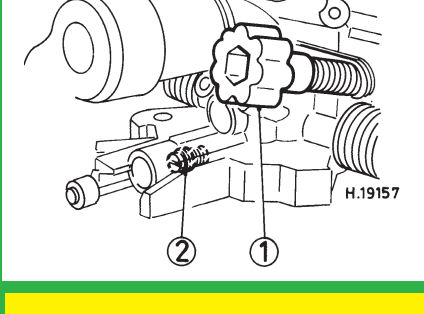
1: Idle speed 2: CO / Mixture



1488 cm³



1488 cm³



Keihin 2V