

Engine & Cooling

Fuel

Ignition

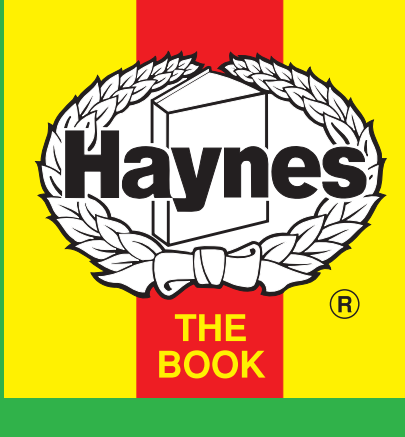
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling systemL-Series 1600 DL 4x41985 to 1993

Type		EA71 OHV
Capacity (cm ³) / number of cylinders		1595 / 4
Compression ratio / pressure	bar	9.0 / 10.8
Oil pressure	bar	2.5 [3.9]
Oil temperature	°C	75 to 85
Valve clearance - inlet	mm	0.23 to 0.27
- exhaust	mm	0.33 to 0.37
Firing order		1-3-2-4
No 1 cylinder position		FR
Thermostat opening temperature	°C	83.5 to 86.5
Radiator cap pressure	bar	0.88±0.10

Fuel systemL-Series 1600 DL 4x41985 to 1993

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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		Hitachi
Type / ref		DCX 328
Main jet / needle		109, 150
Injection pressure	bar	—
Pump pressure	bar	0.18 to 0.23
Octane rating	RON	91[E 91 RON]

Ignition systemL-Series 1600 DL 4x41985 to 1993

Type		Electronic
Ignition coil		Diamond Electric E019
Primary resistance	ohms	1.035 to 1.265
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8 BTDC @ 800
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200
	° Crankshaft @ rpm	23 @ 5000
	° Crankshaft @ rpm	—
Vacuum range check	mbar	133 to 533
Maximum vacuum advance	° Crankshaft	22
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical systemL-Series 1600 DL 4x41985 to 1993

Battery	V / CC / RC	12 / 306 / 78
Alternator voltage / full load current / engine rpm		12.0 / _ / 2500
Starter motor current / voltage - cranking	A / V	270 / 9.5
- locked	A / V	600 / 7.7

Running gearL-Series 1600 DL 4x41985 to 1993

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

Tyres		
Saloon	Size	—
Estate / Van	Size	175/70x13
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	2.0 / 2.0

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.0
Camber		+1°±45’
Castor		+1°35’±45’
King pin inclination		+12°50’

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber		0±45’

Torque wrench settingsL-Series 1600 DL 4x41985 to 1993

Cylinder head - stage 1	Nm	29
- stage 2	Nm	59
- stage 3	Nm	64
- stage 4	Nm	—
Big-end bearings	Nm	22 to 27
Main bearings	Nm	34 to 44
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	41 to 45 ¹
Front hubs	Nm	196
Rear hubs	Nm	196
Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	20 to 29

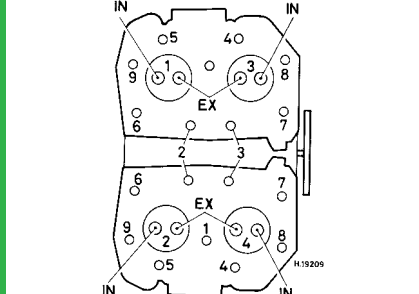
CapacitiesL-Series 1600 DL 4x41985 to 1993

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	3.3
Automatic transmission - refill	litres	—
Final drive	litres	Rear: 0.8
Cooling system	litres	5.3
Fuel tank	litres	60

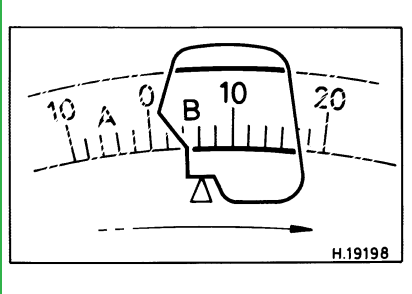
Notes and Illustrations

¹Use locking compound

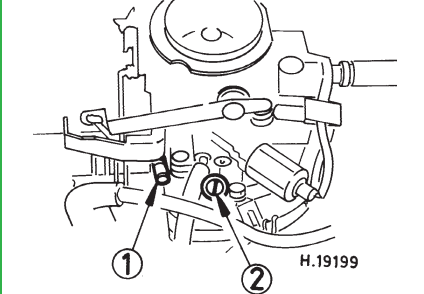
1: Idle speed 2: CO / Mixture



1595 cm³



1595 cm³



Hitachi DCX