

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemBluebird 2.0 Estate (U11)1986 to 1991

Type		CA20S SOHC
Capacity (cm³) / number of cylinders		1974 / 4
Compression ratio / pressure	bar	9.4 / ≥9.0
Oil pressure	bar	[3.2 to 5.1]
Oil temperature	°C	—
Valve clearance - inlet	mm	0.30 H
Valve clearance - exhaust	mm	0.30 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.88

Fuel systemBluebird 2.0 Estate (U11)1986 to 1991

Idle speed - manual [auto]	rpm	650±100
Fast idle speed - manual [auto]	rpm	2400 to 2700 [2800 to 3100]
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		DCR342-44, 45, 46, 91, 92
Main jet / needle		111, 155 or 111, 160 ¹
Injection pressure	bar	—
Pump pressure	bar	0.20 to 0.27 ²
Octane rating	RON	97[R]

Ignition systemBluebird 2.0 Estate (U11)1986 to 1991

Type		Electronic
Ignition coil		Hanshin STC-106
Primary resistance	ohms	1.4 to 1.7
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	Electronic control
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	3±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	11±5 BTDC @ idle (V)
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	21 @ 4800
Vacuum range check	mbar	133 to 467
Maximum vacuum advance	° Crankshaft	20
Spark plugs		NGK/Champion
Type		BCPR6ES / RC7YC
Electrode gap	mm	0.80 to 0.90

Electrical systemBluebird 2.0 Estate (U11)1986 to 1991

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / _ / 2500
Starter motor current / voltage - cranking	A / V	60 to 100 / 11 to 11.5,no load
- locked	A / V	—

Running gearBluebird 2.0 Estate (U11)1986 to 1991

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	—
Estate / Van	Size	185/70x14: 195/60x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.9 / 1.9

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0 to 3.0
Camber		-20' to +1°10' N/A
Castor		+1°15' to 2°45' N/A
King pin inclination		+13°45' to 15°15' N/A

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-6.0 to -2.0
Camber		+20' to -1°10'

Torque wrench settingsBluebird 2.0 Estate (U11)1986 to 1991

Cylinder head - stage 1	Nm	29
- stage 2	Nm	78, then loosen bolts
Cylinder head - stage 3	Nm	29
- stage 4	Nm	74 to 83
Big-end bearings	Nm	29 to 37
Main bearings	Nm	45 to 54
Clutch cover	Nm	18 to 22
Flywheel [driveplate]	Nm	98 to 108
Front hubs	Nm	235 to 314
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	20 to 29

CapacitiesBluebird 2.0 Estate (U11)1986 to 1991

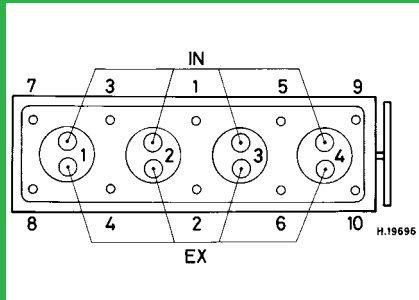
Engine oil & filter	litres	3.6
Gearbox - 4-speed [5-speed]	litres	2.6
Automatic transmission - refill	litres	6.8
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	53

Notes and Illustrations

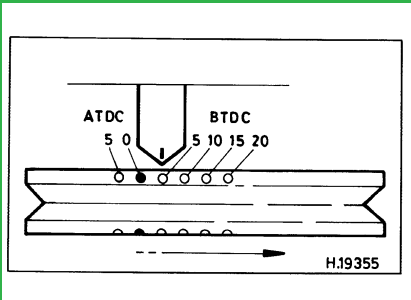
¹1988 ►: 111, 165

²Electrical type: 0.20

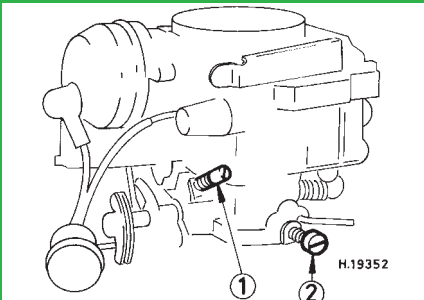
1: Idle speed 2: CO / Mixture



1974 cm³



1974 cm³



Hitachi