

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Sunny ZX Coupé (B12) 1987 to 1989

Type		CA16DE DOHC 16V
Capacity (cm ³) / number of cylinders		1598 / 4
Compression ratio / pressure	bar	10.0 / ≥11.8
Oil pressure	bar	0.8 [5.9]
Oil temperature	°C	–
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.78 to 0.98

Fuel system Sunny ZX Coupé (B12) 1987 to 1989

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	–
CO @ idle speed [3000 rpm] - see page VI	%	≤2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	–
O ₂ @ idle speed [3000 rpm] - see page VI	%	–
Carburettor / fuel injection		Nissan
Type / ref		ECCS (EFI)
Main jet / needle		–
Injection pressure	bar	2.5 @ idle
Pump pressure	bar	3.0
Octane rating	RON	97[R]

Ignition system Sunny ZX Coupé (B12) 1987 to 1989

Type		DIS
Ignition coil		Hanshin MCP-200
Primary resistance	ohms	0.7
Ballast resistor	ohms	–
Voltage - Tmnl 15(+) to earth	V	–
Distributor		–
Points gap (air gap)	mm	–
Dwell angle	° (%)	–
Condenser capacity	µF	–
Rotation		Anticlockwise
Ignition timing - basic [static V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	15±2 BTDC @ 800±50 N/A
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		BCPR6ES-11 / RN9YC4
Electrode gap	mm	1.00 to 1.10

Electrical system Sunny ZX Coupé (B12) 1987 to 1989

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	50 to 90 / 11 to 11.5, no load
- locked	A / V	–

Running gear Sunny ZX Coupé (B12) 1987 to 1989

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

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	See car door pillar
- Estate / Van	bar	–

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-0.5 to +1.5
Camber		-1°5' to +25'
Castor		+55' to 2°25'
King pin inclination		+13°5' to 14°35'

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-3.5 to +0.5
Camber		-1°55' to -25'

Torque wrench settings Sunny ZX Coupé (B12) 1987 to 1989

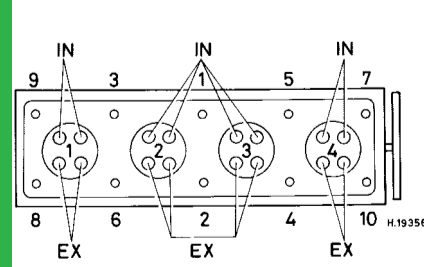
Cylinder head - stage 1	Nm	29
- stage 2	Nm	103, then loosen bolts
Cylinder head - stage 3	Nm	29
- stage 4	Nm	+ 85 to 90°
Big-end bearings	Nm	41 to 44
Main bearings	Nm	44 to 54
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	83 to 93
Front hubs	Nm	196 to 275
Rear hubs	Nm	185 to 216
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

Capacities Sunny ZX Coupé (B12) 1987 to 1989

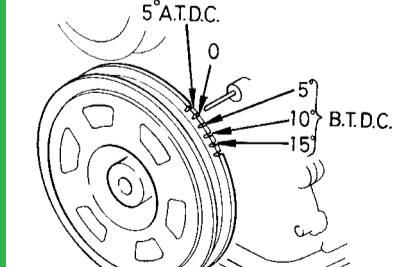
Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	[2.7]
Automatic transmission - refill	litres	–
Final drive	litres	WT
Cooling system	litres	5.6
Fuel tank	litres	52

Notes and Illustrations

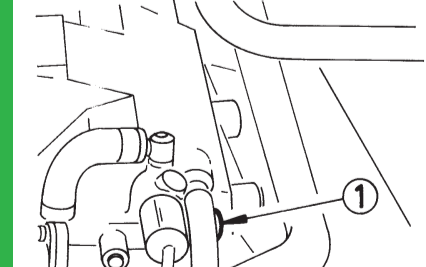
1: Idle speed 2: CO / Mixture



1598 cm³



1598 cm³



ECCS (EFI)



ECCS (EFI)