

Engine & Cooling

Fuel

Ignition

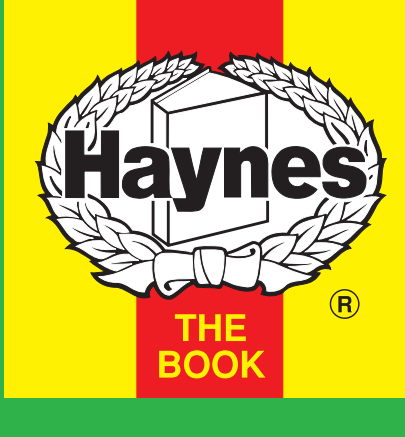
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling systemSunny ZX Coupé (B12)1987 to 1989

Type		CA16DE DOHC 16V
Capacity (cm³) / 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 systemSunny 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
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ 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 systemSunny 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	° Crankshaft @ rpm	15±2 BTDC @ 800±50 N/A
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		BCPR6ES-11 / RN9YC4
Electrode gap	mm	1.00 to 1.10

Electrical systemSunny 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 gearSunny 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 settingsSunny 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

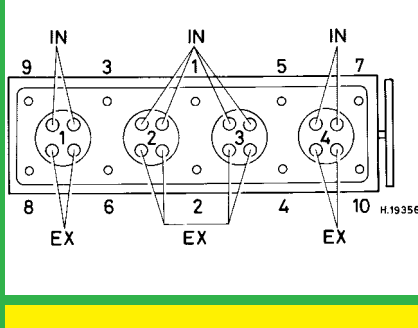
CapacitiesSunny ZX Coupé (B12)1987 to 1989

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

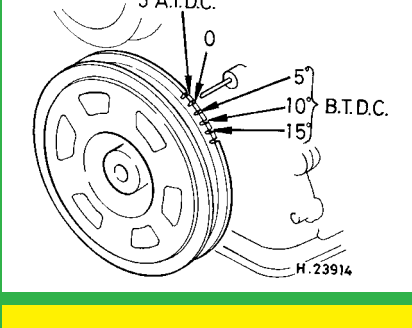
Notes and Illustrations



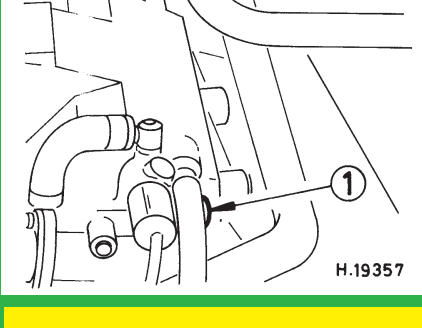
1: Idle speed 2: CO / Mixture



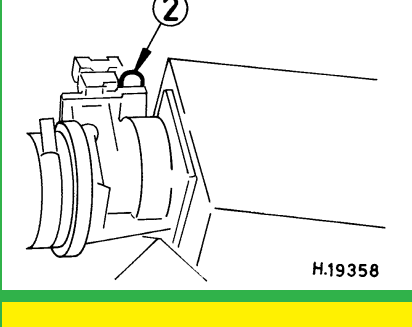
1598 cm³



1598 cm³



ECCS (EFi)



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