

Engine & Cooling

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Automotive Technical
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Engine and cooling systemSunny 2.0 GTi CAT (N14)1991 to 1994

Type		SR20DE DOHC 16V 105kW US83
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	10.0 / ≥10.8
Oil pressure	bar	[3.2 to 4.2]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	76.5
Radiator cap pressure	bar	0.78 to 0.98

Fuel systemSunny 2.0 GTi CAT (N14)1991 to 1994

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.5±0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Nissan
Type / ref		MPI with Hot wire & ECCS
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	2.9
Octane rating	RON	95[U]

Ignition systemSunny 2.0 GTi CAT (N14)1991 to 1994

Type		Computerized
Ignition coil		Hanshin SMC-200. Mitsu. F-097
Primary resistance	ohms	1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Mitsubishi/Hitachi
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15±2 BTDC @ 800
V = Vacuum NV = No Vacuum		NV
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
Type		BKR6EY
Electrode gap	mm	0.80 to 0.90

Electrical systemSunny 2.0 GTi CAT (N14)1991 to 1994

Battery	V / CC / RC	12 / 60, 65Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 65 / 2500
Starter motor current / voltage - cranking	A / V	100 / 11.0
- locked	A / V	—

Running gearSunny 2.0 GTi CAT (N14)1991 to 1994

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

Tyres		
Saloon	Size	195/55x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0 to 3.0
Camber		-1° to +30'
Castor		+40' to 2°10' N/A
King pin inclination		+13°15' to 14°45' N/A

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-1.0 to +3.0
Camber		-1°40' to -10'

Torque wrench settingsSunny 2.0 GTi CAT (N14)1991 to 1994

Cylinder head - stage 1	Nm	39 ¹
- stage 2	Nm	78, loosen completely
Cylinder head - stage 3	Nm	39±5 + 90 to 100°
- stage 4	Nm	+ 90 to 100°
Big-end bearings	Nm	15 + 60 to 65°
Main bearings	Nm	35 + 45 to 50°
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	83 to 93
Front hubs	Nm	196 to 275
Rear hubs	Nm	186 to 255
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

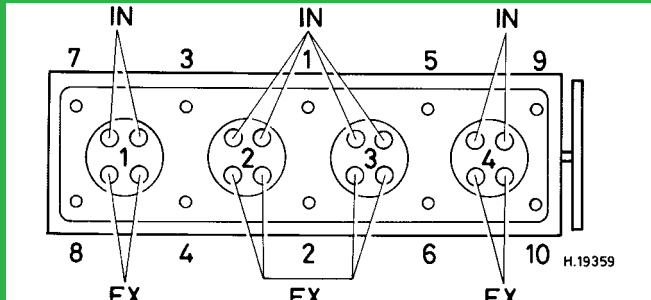
CapacitiesSunny 2.0 GTi CAT (N14)1991 to 1994

Engine oil & filter	litres	3.4
Gearbox - 4-speed [5-speed]	litres	3.7
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.6
Fuel tank	litres	50

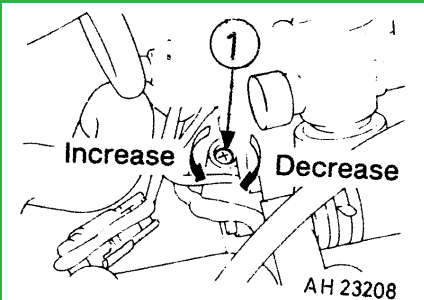
Notes and Illustrations

¹Fit new bolts if longer than 158.2mm

1: Idle speed 2: CO / Mixture



1998 cm³, 16V



MPI