

Automotive Technical DATA BOOK

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MENU HELP

HELP

Engine and cooling system

Sunny GTi-R (N14)	1991 to 1994
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Type		SR20DET DOHC 16v 164kW USB3
Capacity (cm ³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	8.3 / ≥ 9.3
Oil pressure	bar	[3.4 to 4.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30 to 0.35 H
- exhaust	mm	0.30 to 0.35 H
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 system

Sunny GTi-R (N14) 1991 to 1994

Idle speed - manual [auto]	rpm	925±25-75
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.7±0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Nissan
Type / ref		MPI & ECES
Main jet / needle		
Injection pressure	bar	2.5
Pump pressure	bar	2.9
Octane rating	RON	95(U)

Ignition system

Sunny GTi-R (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	20±2 BTDC @ 925
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		PER7B-9
Electrode gap	mm	N/A

Electrical system

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Battery	V / CC / RC	12 / 60, 65Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 77 / 2500
Starter motor current / voltage - cranking	A / V	50 to 75 / 11.0
- locked	A / V	-

Running gear

Sunny GTi-R (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		-40' to +50'	
Castor		+30 to 23' N/A	
King pin inclination		+12'15' to 13'45' N/A	
Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +3.0	
Camber		-55' to +35'	

Torque wrench settings

Sunny GTi-R (N14) 1991 to 1994

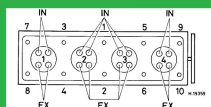
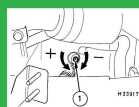
Cylinder head - stage 1	Nm	39
- stage 2	Nm	113, loosen completely
Cylinder head - stage 3	Nm	36 to 42
- stage 4	Nm	+ 90 to 95°
Big-end bearings	Nm	20 + 60 to 65°
Main bearings	Nm	41 + 60 to 65°
Clutch cover	Nm	22 to 29
Flywheel (driveplate)	Nm	127 to 137
Front hubs	Nm	196 to 275
Rear hubs	Nm	196 to 275
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

Capacities

Sunny GTi-R (N14) 1991 to 1994

Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	4.2. Transfer: 1.5
Automatic transmission - refill	litres	-
Final drive	litres	1.0
Cooling system	litres	6.6
Fuel tank	litres	50

Notes and Illustrations

1998 cm³, 16

MPI, GTi-R