

Engine & Cooling

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Automotive Technical
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Engine and cooling systemSunny 1.4 CAT (N14)1991 to 1995

Type		GA14DS/E DOHC 16V 55kW US83
Capacity (cm ³) / number of cylinders		1392 / 4
Compression ratio / pressure	bar	9.5 / ≥11.3
Oil pressure	bar	[3.4 to 4.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.32 to 0.40 H
Valve clearance - exhaust	mm	0.37 to 0.45 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 systemSunny 1.4 CAT (N14)1991 to 1995

Idle speed - manual [auto]	rpm	750±50 [850±50]
Fast idle speed - manual [auto]	rpm	2200±200 [2500±200]
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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		NikkiNissan
Type / ref		21L304-15. AT: -16 ¹⁴⁴
Main jet / needle		88, 135
Injection pressure	bar	2.9
Pump pressure	bar	0.21 to 0.34
Octane rating	RON	91[U]

Ignition systemSunny 1.4 CAT (N14)1991 to 1995

Type		Electronic
Ignition coil		—
Primary resistance	ohms	1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Mitsubishi/Hitachi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	0 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	10±2 BTDC @ idle
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	-2 to +1 @ 900 to 1000
	° Crankshaft @ rpm	15 to 16 @ 2400 to 2800
	° Crankshaft @ rpm	26 to 28 @ 4400
Vacuum range check	mbar	40 to 553
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		NGK
Type		BKR5E
Electrode gap	mm	0.80 to 0.90

Electrical systemSunny 1.4 CAT (N14)1991 to 1995

Battery	V / CC / RC	12 / 60, 65Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 50, 70 / 2500
Starter motor current / voltage - cranking	A / V	50 to 90 / 11.0 to 11.5
- locked	A / V	—

Running gearSunny 1.4 CAT (N14)1991 to 1995

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

Tyres		
Saloon	Size	155x13: 175/70x13
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' N/A
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 1.4 CAT (N14)1991 to 1995

Cylinder head - stage 1	Nm	29
- stage 2	Nm	59
Cylinder head - stage 3	Nm	Loosen, then 29
- stage 4	Nm	+ 50 to 55 ^{o2}
Big-end bearings	Nm	15 + 35 to 40°
Main bearings	Nm	46 to 52
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	83 to 93 ³
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 1.4 CAT (N14)1991 to 1995

Engine oil & filter	litres	3.2
Gearbox - 4-speed [5-speed]	litres	2.8
Automatic transmission - refill	litres	7.0
Final drive	litres	WT
Cooling system	litres	5.5 [AT: 5.9]
Fuel tank	litres	50

Notes and Illustrations

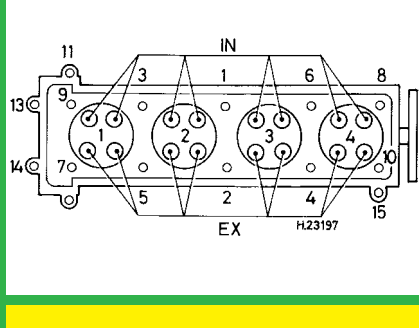
¹With EGR: 21L304-17. AT: -18

²Bolts 11 to 15: 6.3 to 8.3

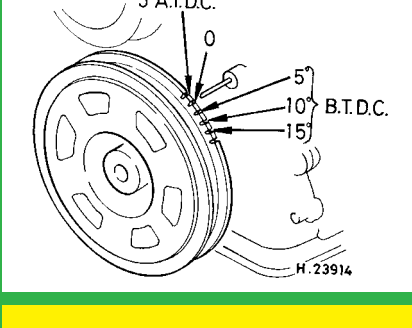
³[93 to 103]

⁴GA14DE: ECCS

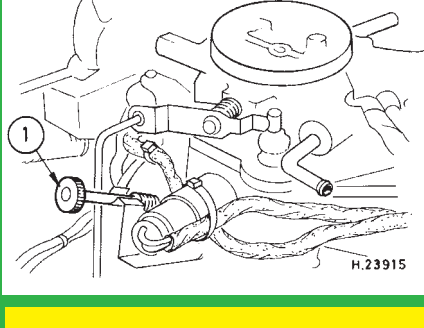
1: Idle speed2: CO / Mixture



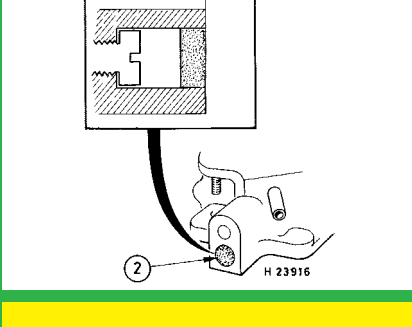
1392 cm³, 16V



1392 cm³, 16V



Nikki



Nikki