Engine &

Cooling

1989 to 1991

Capacities

Torque

settings

Fuel

Ignition

Automotive Technical

Electrical

return to this screen and make another choice, click anywhere on the data screen. **MENU HELP** Sunny 1.6i CAT (B12, N13) 1989 to 1991

Click on one of the buttons above to view data for this car. To

GA16i SOHC 12V

1989 to 1991

Notes &

Illustrations

Oil pressure	
Oil temperature	
Valve clearance - inlet	

Capacity (cm3) / number of cylinders

Compression ratio / pressure

lalve clearance - exhaust

Firing order No 1 cylinder position Thermostat opening temperature

Radiator cap pressure Fuel system Idle speed - manual [auto] Fast idle speed - manual [auto]

CO @ idle speed [3000 rpm] - see page VI HC @ idle speed [3000 rpm] - see page VI CO2 @ idle speed [3000 rpm] - see page VI O2 @ idle speed [3000 rpm] - see page VI

Carburettor / fuel injection Type / ref Main jet / needle Injection pressure Pump pressure

Octane rating **Ignition system** Type Ignition coil Primary resistance Ballast resistor

Voltage - Tmnl 15(+) to earth Distributor Points gap (air gap) Dwell angle Condenser capacity Rotation Ignition timing - basic [static

V = Vacuum NV = No Vacuum Total ignition advance Centrifugal check. Vacuum range check

Maximum vacuum advance

Type Electrode gap **Electrical system Battery** Alternator voltage / full load current / engine rpm Starter motor current / voltage - cranking

Spark plugs

Running gear Brakes -Front (min. friction material thickness) Rear (min. friction material thickness)

Tyres Saloon Estate / Van Pressure - front / rear - Saloon

Front suspension / wheel alignment Toe-in (+) / Toe-out (-) Camber Castor

King pin inclination

Toe-in (+) / Toe-out (-) Camber Torque wrench settings Cylinder head - stage 1

Rear suspension / wheel alignment

Cylinder head - stage 3 - stage 4 Big-end bearings

- stage 2

Main bearings Clutch cover

Flywheel [driveplate] Front hubs

Rear hubs Wheel nuts / bolts Spark plugs **Capacities**

Engine oil & filter

Cooling system

Final drive

Fuel tank

Gearbox - 4-speed [5-speed]

Automatic transmission - refill

Notes and Illustrations ¹Coupé: -1°5′ to +25′ ²Coupé: +45' to 2°15' N/A ³Coupé: +13°25′ to 14°55′ N/A 4Coupé: +0.5 to -3.5

⁵Coupé: -1°55′ to -25′

⁷Driveplate: [93 to 103]

1597 cm³, 12V

Engine and cooling system

bar

°C mm

mm

°C

bar

Running

gear

bar

1597 / 4 $9.8 / \ge 11.1$ [3.9 to 4.9] 0: Hyd.

0: Hyd.

1-3-4-2

TBE 82 0.78 to 0.98 Sunny 1.6i CAT (B12, N13)

850±50 [900±100] rpm rpm % ≤0.5 N/A ppm ≤200

% % Nissan TBI (SPI) bar 2.4

bar **RON** 95[U] Sunny 1.6i CAT (B12, N13) Electronic Hanshin STC-143 ohms

1.0 to 1.3 Hitachi [0.30 to 0.50]

Anticlockwise

7 BTDC @ idle

ohms

٧

mm ° (%)

μF

^o Crankshaft

- locked

- Estate / Van

° Crankshaft @ rpm ° Crankshaft @ rpm ° Crankshaft @ rpm ° Crankshaft @ rpm 0 @ 600 ° Crankshaft @ rpm 20 @ 2400 ° Crankshaft @ rpm ° Crankshaft @ rpm 28 to 32 @ 4400 147 to 373 mbar

20

NGK/Champion BCPR6ES-11 / RC9YC4 1.00 to 1.10 mm Sunny 1.6i CAT (B12, N13) V/CC/RC 12 / 60Ah 14.1 to 14.7 / _ / 2500

A/V 60 / 11.5 (no load) A/V Sunny 1.6i CAT (B12, N13) mm

2.0 1.5 mm Size Size

bar

bar

mm [°]

mm [°]

Nm

litres

litres

litres

litres

litres

litres

155x13: 175/70x13

2.1 / 2.1 -0.5 to +1.5-50' to $+40'^1$

+35' to 2°5' N/A2

+13°5′ to 14°35′ N/A³ 0 to -4.04 -1°45' to -15' [B12; -25']5

29

64

Sunny 1.6i CAT (B12, N13)

Loosen, then 29

15 + 35 to 40°

See note⁶

46 to 52

22 to 29

83 to 937 196 to 275

186 to 255

Sunny 1.6i CAT (B12, N13)

5.0 [AT: 5.4]

B12: 52. N13: 50

98 to 118 20 to 29

3.2

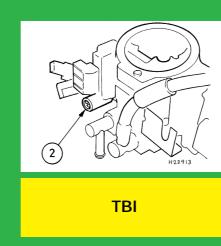
2.8

6.3

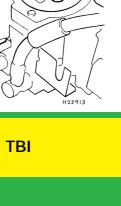
WT

2: CO / Mixture 1: Idle speed

⁶Bolt 1: + 80 to 85°. Bolts 2 to 10: + 60 to 65°. Bolts 11 to 15: 6.3 to 8.3



1597 cm³, 12V



TBI