Fuel

Engine &

Cooling

1989 to 1991

Capacities

Torque

settings

Automotive Technical

Ignition

return to this screen and make another choice, click anywhere on the data screen. **MENU HELP** Sunny 1.4 & CAT (B12, N13) 1989 to 1991 GA14S SOHC 12V

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

1989 to 1991

Notes &

Illustrations

Oil temperature	
Valve clearance - inlet	
Valve clearance - exhaust	

Compression ratio / pressure

Oil pressure

Firing order No 1 cylinder position

Thermostat opening temperature Radiator cap pressure Fuel system

Fast idle speed - manual [auto] CO @ idle speed [3000 rpm] - see page VI HC @ idle speed [3000 rpm] - see page VI

Idle speed - manual [auto] 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

Spark plugs Type Electrode gap **Electrical system Battery** Alternator voltage / full load current / engine rpm

Starter motor current / voltage - cranking Running gear Brakes -Front (min. friction material thickness) Rear (min. friction material thickness) **Tyres** Saloon

Estate / Van Front suspension / wheel alignment Camber Castor

Pressure - front / rear - Saloon

Toe-in (+) / Toe-out (-)

King pin inclination

Camber

Toe-in (+) / Toe-out (-)

- stage 2

- stage 4

Rear suspension / wheel alignment

Torque wrench settings

Cylinder head - stage 1 Cylinder head - stage 3 Big-end bearings Main bearings Clutch cover

Flywheel [driveplate] Front hubs Rear hubs

Wheel nuts / bolts Spark plugs **Capacities** Engine oil & filter Gearbox - 4-speed [5-speed] Automatic transmission - refill Final drive

Cooling system Fuel tank **Notes and Illustrations** ¹CAT: [U] ²AT: 147 to 333 @ 10° ³Bolt 1: + 80 to 85°. Bolts 2 to 10: + 60 to 65°. Bolts 11 to 15: 6.3 to 8.3 ⁵Driveplate: [93 to 103]

1392 cm³, 12V

Engine and cooling system Capacity (cm³) / number of cylinders

Electrical

bar

Running

gear

bar °C mm mm

1392 / 4 $9.4 / \ge 11.1$ [3.9 to 4.9]

0.20 to 0.30 H 0.25 to 0.35 H 1-3-4-2 **TBE**

°C

bar

rpm

rpm

ppm

%

% %

bar

bar

RON

ohms ohms

٧

mm ° (%)

μF

mbar

mm

A/V

A/V

mm

mm

Size

Size

bar

bar

mm [°]

mm [°]

Nm

litres

litres

litres

litres

litres

litres

1: Idle speed

° Crankshaft

V/CC/RC

- locked

- Estate / Van

° Crankshaft @ rpm

° Crankshaft @ rpm ° Crankshaft @ rpm ° Crankshaft @ rpm

° Crankshaft @ rpm

° Crankshaft @ rpm ° Crankshaft @ rpm

82 0.78 to 0.98 Sunny 1.4 & CAT (B12, N13) 800±50 [850±50]

2700±200 [3400±200] 1.5 ± 0.5 ≤200 Hitachi 96, 155

21L282-05 [AT: -06] 0.21 to 0.34 91[E 91 RON]1 Sunny 1.4 & CAT (B12, N13)

Electronic

Hanshin STC-143 1.0 to 1.3

Hitachi/Mitsubishi [0.30 to 0.50] **Anticlockwise** 4±5 BTDC @ idle

29² NGK/Champion BCPR6ES / RC9YC 0.80 to 0.90 Sunny 1.4 & CAT (B12, N13)

14.1 to 14.7 / _ / 2500

60 / 11.5 (no load)

155x13: 175/70x13

12 / 60Ah

Sunny 1.4 & CAT (B12, N13)

2.0

1.5

2.1 / 2.1

-0.5 to +1.5

-50' to +40'

0 to -4.0

29

64

Sunny 1.4 & CAT (B12, N13)

Loosen, then 29

15 + 35 to 40°

46 to 52

22 to 29

83 to 934

196 to 275

186 to 255

Sunny 1.4 & 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

+35' to 2°5' N/A

+13°5′ to 14°35′ N/A

-1°45' to -15' [B12: to -25']

2: CO / Mixture

1392 cm³, 12V

Hitachi 21L

H.19847