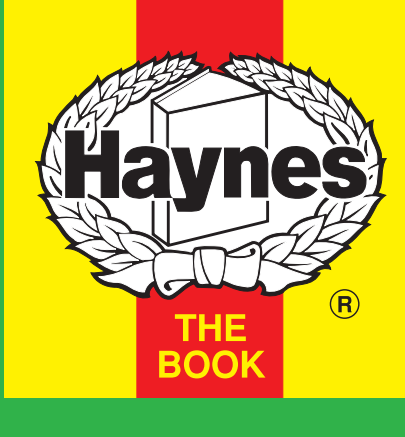




Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

Charade (G-100S)

1987 to 1993

Type		CB 23 38kW
Capacity (cm³) / number of cylinders		993 / 3
Compression ratio / pressure	bar	9.5 / 12.3
Oil pressure	bar	[3.6±0.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20 H
Valve clearance - exhaust	mm	0.20 H
Firing order		1-2-3
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88±1.5
Radiator cap pressure	bar	0.75 to 1.05

Fuel system

Charade (G-100S)

1987 to 1993

Idle speed - manual [auto]	rpm	800±50 [850±50]
Fast idle speed - manual [auto]	rpm	2300 to 2700
CO @ idle speed [3000 rpm] - see page VI	%	≤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		Aisan-Kogyo
Type / ref		2V 28-32
Main jet / needle		83, 141
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	98[E 95 RON]

Ignition system

Charade (G-100S)

1987 to 1993

Type		Contact breaker - CIS
Ignition coil		—
Primary resistance	ohms	0.9 to 1.1
Ballast resistor	ohms	1.5 to 1.9
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	0.40 to 0.50
Dwell angle	° (%)	58 to 66
Condenser capacity	µF	0.25
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±2 BTDC @ idle
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200 to 1800
	° Crankshaft @ rpm	10 to 14 @ 3000
	° Crankshaft @ rpm	18 to 24 @ 5600
Vacuum range check	mbar	133 to 453
Maximum vacuum advance	° Crankshaft	20 to 24
Spark plugs		NGK/Champion
Type		BPR5EY / RN9YC
Electrode gap	mm	0.80 to 0.90

Electrical system

Charade (G-100S)

1987 to 1993

Battery	V / CC / RC	12 / 36Ah
Alternator voltage / full load current / engine rpm		13.9 to 15.1 / 45 / 2000
Starter motor current / voltage - cranking	A / V	50 / 11.0 (no load)
- locked	A / V	450 / 8.5

Running gear

Charade (G-100S)

1987 to 1993

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	145/80x13: 145x13: 155/80x13¹
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.8²
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-1.0 to +3.0
Camber		+20'±1°
Castor		+2°55'±1°
King pin inclination		+12°±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+5.0+3.0-1.0
Camber		-40'±35'

Torque wrench settings

Charade (G-100S)

1987 to 1993

Cylinder head - stage 1	Nm	54 to 64
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	20 to 28
Main bearings	Nm	53 to 65
Clutch cover	Nm	15 to 21
Flywheel [driveplate]	Nm	39 to 49
Front hubs	Nm	176 to 216
Rear hubs	Nm	58 to 98
Wheel nuts / bolts	Nm	88 to 118
Spark plugs	Nm	15 to 21

Capacities

Charade (G-100S)

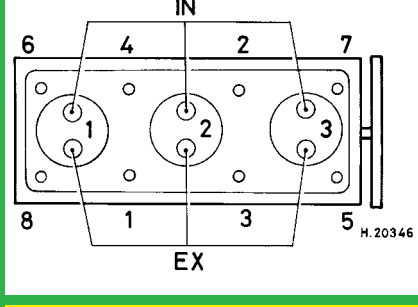
1987 to 1993

Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	2.0 [2.2]
Automatic transmission - refill	litres	5.0
Final drive	litres	WT
Cooling system	litres	3.5 [AT: 3.9]
Fuel tank	litres	37

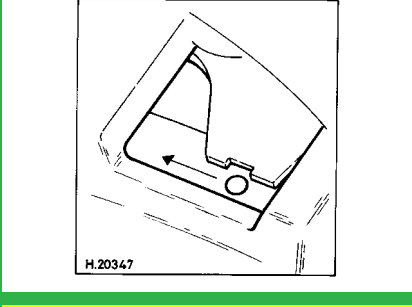
Notes and Illustrations

¹165/70x13
²165/70x13: 2.0 / 2.0

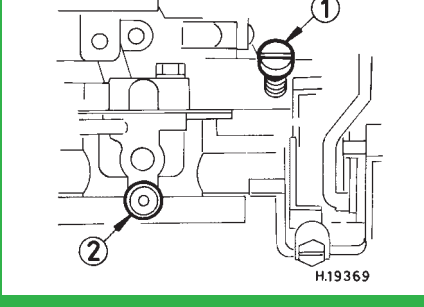
1: Idle speed 2: CO / Mixture



993 cm³, 6V



993 cm³, 6V



Aisan-Kogyo 28-32