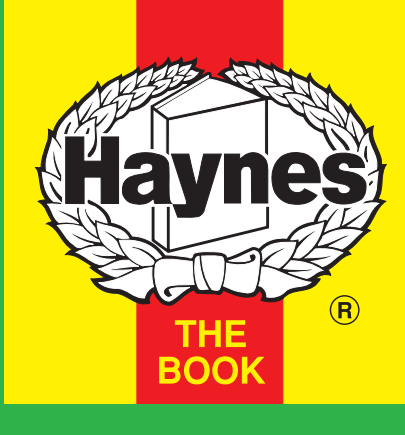


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
------------------	------	----------	------------	--------------	-----------------	------------	-----------------------



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 systemCharade Turbo (G-100S)1987 to 1990

Type		CB 61 50kW
Capacity (cm³) / number of cylinders		993 / 3
Compression ratio / pressure	bar	8.0 / 11.8
Oil pressure	bar	[3.6±0.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.25 H
Valve clearance - exhaust	mm	0.25 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 systemCharade Turbo (G-100S)1987 to 1990

Idle speed - manual [auto]	rpm	800±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 downdraught 28-32
Main jet / needle		78, 210
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	98[E 95 RON]

Ignition systemCharade Turbo (G-100S)1987 to 1990

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	10±2 BTDC @ 800±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1300 to 1700
	° Crankshaft @ rpm	16 to 20 @ 3000
	° Crankshaft @ rpm	26 to 28 @ 6400
Vacuum range check	mbar	80 to 600
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		NGK/Champion
Type		BPR5EY / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical systemCharade Turbo (G-100S)1987 to 1990

Battery	V / CC / RC	12 / 36Ah
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / 45 / 2000
Starter motor current / voltage - cranking	A / V	50 / 11.0 (no load)
- locked	A / V	450 / 8.5

Running gearCharade Turbo (G-100S)1987 to 1990

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

Tyres		
Saloon	Size	165/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- 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 settingsCharade Turbo (G-100S)1987 to 1990

Cylinder head - stage 1	Nm	30
- stage 2	Nm	54 to 64
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	20 to 28
Main bearings	Nm	53 to 65
Clutch cover	Nm	7 to 10
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

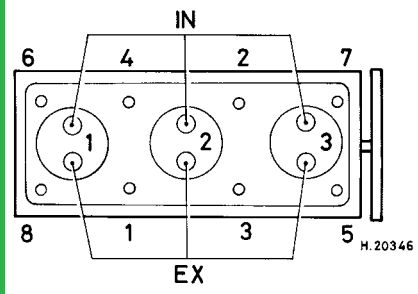
CapacitiesCharade Turbo (G-100S)1987 to 1990

Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	2.2
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	3.9
Fuel tank	litres	40

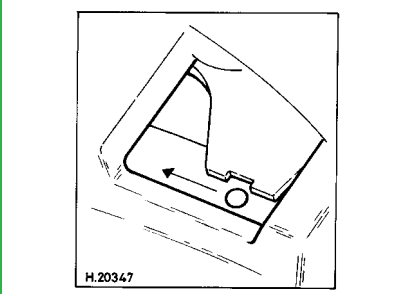
Notes and Illustrations



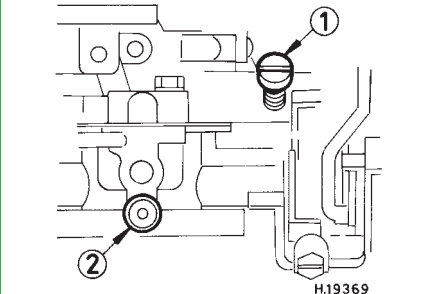
1: Idle speed 2: CO / Mixture



993 cm³, 6V



993 cm³, 6V



Aisan-Kogyo 28-32