

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemCharade GTti (G-100S)1987 to 1993

Type		CB 80 DOHC 12V 74kW
Capacity (cm ³) / number of cylinders		993 / 3
Compression ratio / pressure	bar	7.8 / 10.3
Oil pressure	bar	—
Oil temperature	°C	—
Valve clearance - inlet	mm	0.27 H
Valve clearance - exhaust	mm	0.32 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 GTti (G-100S)1987 to 1993

Idle speed - manual [auto]	rpm	950±50
Fast idle speed - manual [auto]	rpm	—
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		—
Type / ref		Electronic injection
Main jet / needle		—
Injection pressure	bar	1.3
Pump pressure	bar	2.5
Octane rating	RON	98[E 95 RON]

Ignition systemCharade GTti (G-100S)1987 to 1993

Type		Computerized
Ignition coil		—
Primary resistance	ohms	0.9 to 1.1
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±2 BTDC @ 950±50
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK/Champion
Type		BPR6EKN / RN7YC4
Electrode gap	mm	0.90 to 1.00

Electrical systemCharade GTti (G-100S)1987 to 1993

Battery	V / CC / RC	12 / 36Ah
Alternator voltage / full load current / engine rpm		14.2 to 14.8 / 50 / 2000
Starter motor current / voltage - cranking	A / V	50 / 11.0 (no load)
- locked	A / V	450 / 8.5

Running gearCharade GTti (G-100S)1987 to 1993

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	175/60x14: 185/60x14
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'

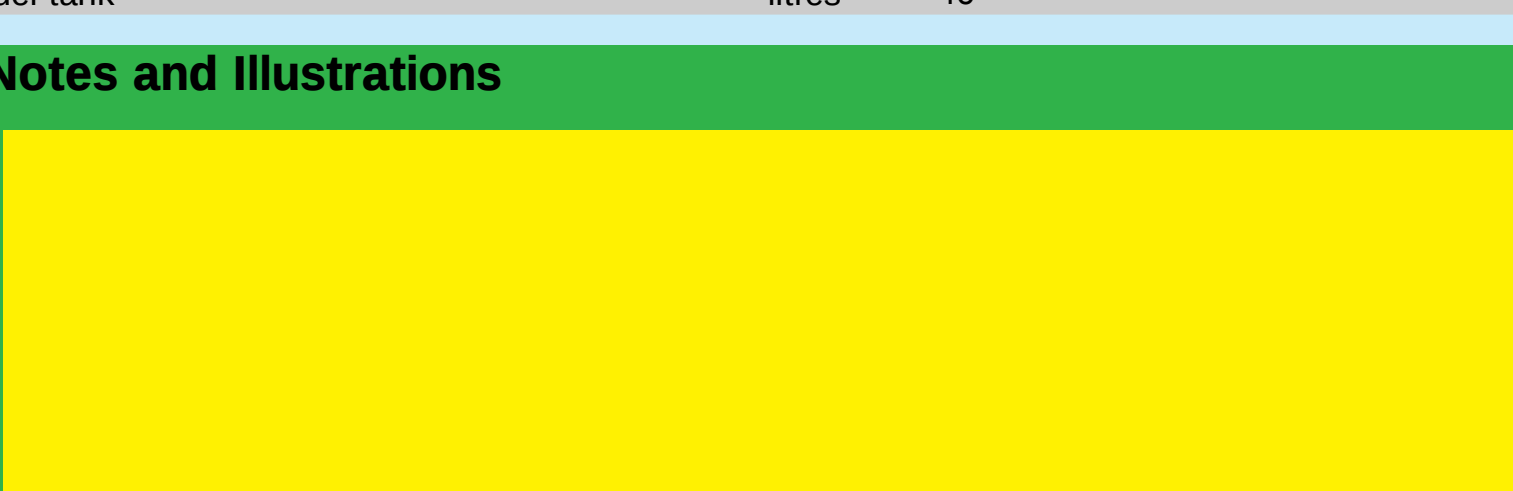
Torque wrench settingsCharade GTti (G-100S)1987 to 1993

Cylinder head - stage 1	Nm	39 to 45
- stage 2	Nm	58 to 69
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	41 to 51
Main bearings	Nm	62 to 75
Clutch cover	Nm	15 to 21
Flywheel [driveplate]	Nm	58 to 69
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

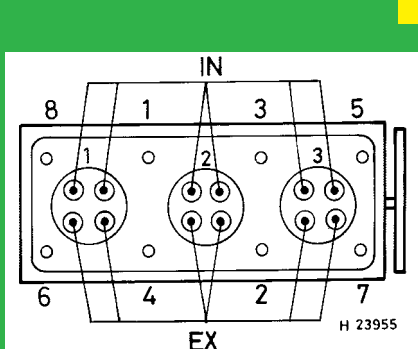
CapacitiesCharade GTti (G-100S)1987 to 1993

Engine oil & filter	litres	3.1
Gearbox - 4-speed [5-speed]	litres	2.2
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	4.0
Fuel tank	litres	40

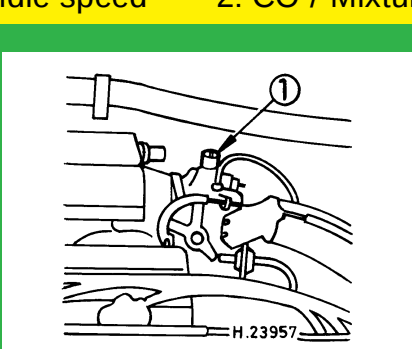
Notes and Illustrations



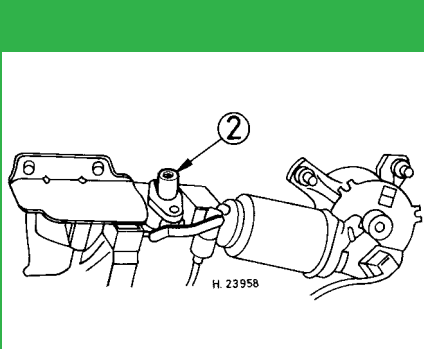
1: Idle speed 2: CO / Mixture



993 cm³, 12V



EFi, GTi



EFi, GTi