

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system		Charade 1.5i (G203)	1996 to 1997
Type		HE-E SOHC 16V 66kW	
Capacity (cm³) / number of cylinders		1499 / 4	
Compression ratio / pressure	bar	9.5 / 13.5	
Oil pressure	bar	0.19 [2.5 to 4.9]	
Oil temperature	°C	80	
Valve clearance - inlet	mm	0.25±0.05 H	
Valve clearance - exhaust	mm	0.25±0.05 H	
Firing order		1-3-4-2	
No 1 cylinder position		TBE	
Thermostat opening temperature	°C	76 to 80	
Radiator cap pressure	bar	0.60 to 1.00	

Fuel system		Charade 1.5i (G203)	1996 to 1997
Idle speed - manual [auto]	rpm	800±50	
Fast idle speed - manual [auto]	rpm	N/A	
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	%	≥14.0	
O2 @ idle speed [3000 rpm] - see page VI	%		
Carburettor / fuel injection		_Nippon Denso	
Type / ref		D Type MPi	
Main jet / needle		_	
Injection pressure	bar	2.84	
Pump pressure	bar		
Octane rating	RON	90[U]	

Ignition system		Charade 1.5i (G203)	1996 to 1997
Type		Electronic	
Ignition coil		Nippon Denso / Diamond	
Primary resistance	ohms	0.90 to 1.10	
Ballast resistor	ohms	N/A	
Voltage - Tmnl 15(+) to earth	V	12.0	
Distributor		Nippon Denso	
Points gap (air gap)	mm	[0.40]	
Dwell angle	° (%)	N/A	
Condenser capacity	µF	N/A	
Rotation		Anticlockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	0±2 BTDC @ 800	
V = Vacuum NV = No Vacuum			
Total ignition advance	° Crankshaft @ rpm	Computer control	
	° 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/Nippon Denso/Champion	
Type		BKR6E-11/K20PR-U11/RC9YC4	
Electrode gap	mm	1.00 to 1.10	

Electrical system		Charade 1.5i (G203)	1996 to 1997
Battery	V / CC / RC	12V 28AH	
Alternator voltage / full load current / engine rpm		12 / 60 / _	
Starter motor current / voltage - cranking	A / V	90 / 11.0	
- locked	A / V	N/A	

Running gear		Charade 1.5i (G203)	1996 to 1997
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	2.0 / 2.0	
- Estate / Van	bar	_	

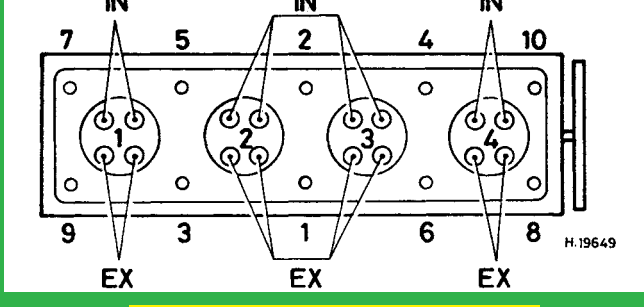
Front suspension / wheel alignment			
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±1.0	
Camber		+20'+40'-20'	
Castor		+1°55'±1°	
King pin inclination		-20°	

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

Torque wrench settings		Charade 1.5i (G203)	1996 to 1997
Cylinder head - stage 1	Nm	20	
- stage 2	Nm	40	
Cylinder head - stage 3	Nm	58.8 to 66.7	
- stage 4	Nm	_	
Big-end bearings	Nm	34.3 to 44.1	
Main bearings	Nm	44.1 to 53.9	
Clutch cover	Nm	14.7 to 21.6	
Flywheel [driveplate]	Nm	78.5 to 98.0	
Front hubs	Nm	167 to 226	
Rear hubs	Nm	60 to 89	
Wheel nuts / bolts	Nm	89 to 118	
Spark plugs	Nm	14.7 to 21.6	

Capacities		Charade 1.5i (G203)	1996 to 1997
Engine oil & filter	litres	3.5	
Gearbox - 4-speed [5-speed]	litres	2.25	
Automatic transmission - refill	litres	3.2	
Final drive	litres	WT	
Cooling system	litres	4.7	
Fuel tank	litres	50	

Notes and Illustrations



1499 cm³